

11-201

STIC-Biotech/ChemLib

From: Romeo, David
Sent: Tuesday, November 10, 1998 8:00 AM
T : STIC-Biotech/ChemLib
Subject: 08/945,459

Requester's Name: ... David Romeo
Serial Number: ... 08/945,459
Phone: ... 305-4050
Art Unit: ... 1646
Office: ... CM1, 10E09 (Mailbox, 10C01)
Date of Request: ... 10 November 1998

PLEASE PROVIDE RESULTS ON DISK(s)

Please search the commercial and interference files for:

SEQ ID NOs:1 and 4.

FILE 'USPAT' ENTERED AT 08:02:22 ON 10 NOV 1998

***** WELCOME TO THE *****
***** U.S. PATENT TEXT FILE *****

=> s mp52 or (mp 52) or gdf5 or (gdf 5) or ((growth(la)differentiation)(w)factor(w)5)

14 MP52
29697 MP
831400 52
347 MP 52
(MP (MP 52))
0 GDF5
142 GDF
2247558 5
4 GDF 5
(GDF (W)5)
142295 GROWTH
21751 DIFFERENTIATION
257110 FACTOR
2247558 5

L1 1 (GROWTH(LA)DIFFERENTIATION)(W)FACTOR(W)5
IAT 363 MP52 OR (MP 52) OR GDF5 OR (GDF 5) OR ((GROWTH(LA)DIFFERENTIATION)(W)FACTOR(W)5)

=> s l1 and (530, 435, 514/cor)

L2 0 530, 435, 514/COR
0 L1 AND (530, 435, 514/COR)

=> s l1 and (530, 435, 514/clas)

L3 0 530, 435, 514/CLAS
0 L1 AND (530, 435, 514/CLAS)

=> s l1 and (530 or 435 or 514/clas)

35688 530
18229 435
78209 514/CLAS
L4 178 L1 AND (530 OR 435 OR 514/CLAS)

=> s mp52 or gdf5 or gdf3 or ((gdf or ((growth(la)differentiation)(w)factor)) (w) (3 or 5))

14 MP52
0 GDF5
8 GDF3
142 GDF
142295 GROWTH
21751 DIFFERENTIATION
257110 FACTOR
2352580 5
2247558 5

L5 11 (GDF OR ((GROWTH(LA)DIFFERENTIATION)(W)FACTOR)) (W) (3 OR 5)
N1 33 MP52 OR GDF5 OR GDF3 OR (GDF OR ((GROWTH(LA)DIFFERENTIATION)(W)FACTOR)) (W) (3 OR 5)

=> d bib ab 1 -

US PAT NO: 5,830,761 [IMAGE AVAILABLE] L5: 1 of 33
DATE ISSUED: Nov. 5, 1998
TITLE: Medium and methods for culturing mammalian cho cells
INVENTOR: Denis Drapeau, Salem, NH
S. Robert Adamson, Chelmsford, MA
Yen-Tung Juan, Chelmsford, MA
Paul Thoday, Sterling, MA
ASSIGNEE: Genetics Institute, Inc., Cambridge, MA (U.S. corp.)
APPL-NO: 08/481,774
DATE FILED: Jun. 7, 1995
ART-UNIT: 182
PRIM-EXMR: Leon B. Lankford, Jr.
LEGAL-REP: Steven R. Lazar

US PAT NO: 5,830,761 [IMAGE AVAILABLE] L5: 1 of 33

ABSTRACT: Cell culture media are provided containing high L-cystine concentration and low L-glutamic acid concentration. The media are useful for recombinant production of proteins using mammalian cell cultures.

US PAT NO: 5,827,733 [IMAGE AVAILABLE] L5: 2 of 33
DATE ISSUED: Oct. 27, 1998
TITLE: Growth differentiation factor-8 (GDF-8) and polynucleotides encoding same
INVENTOR: Se-Jin Lee, Baltimore, MD
Alexandra C. McPherson, Baltimore, MD
The Johns Hopkins University School of Medicine, Baltimore, MD (U.S. corp.)
APPL-NO: 08/525,596
DATE FILED: Oct. 29, 1995
ART-UNIT: 182
PRIM-EXMR: Elizabeth C. Kemmerer
LEGAL-REP: Fish & Richardson, P.C.

US PAT NO: 5,827,733 [IMAGE AVAILABLE] L5: 2 of 33

ABSTRACT: Growth differentiation factor-8 (GDF-8) polypeptides, polynucleotides encoding GDF-8 polypeptides, and vectors and host cells containing GDF-8 encoding polynucleotides are provided.

US PAT NO: 5,821,805 [IMAGE AVAILABLE] L5: 3 of 33
DATE ISSUED: Oct. 13, 1998
TITLE: Charge pump circuit having different threshold biases of the transistors
INVENTOR: Toshikatsu Jinbo, Tokyo, Japan
ASSIGNEE: NEC Corporation, Tokyo, Japan (foreign corp.)
APPL-NO: 08/884,331
DATE FILED: Jun. 27, 1997
ART-UNIT: 285
PRIM-EXMR: Terry Cunningham
LEGAL-REP: Sughrue, Mion, Zinn, Macpeak & Seas, PLLC

US PAT NO: 5,821,805 [IMAGE AVAILABLE] L5: 3 of 33

ABSTRACT: In a charge pump circuit having a plurality of transistors connected in a diode configuration, the threshold voltage of the transistors are prevented from being increased due to a back-bias effect by having the threshold biases of the transistors adjusted. The circuit, therefore, ensures a desired voltage boosting ability.

US PAT NO: 5,821,056 [IMAGE AVAILABLE] L5: 4 of 33
DATE ISSUED: Oct. 13, 1998
TITLE: Growth differentiation factor-9
INVENTOR: Se-Jin Lee, Baltimore, MD
ASSIGNEE: The Johns Hopkins University School of Medicine, Baltimore, MD (U.S. corp.)
APPL-NO: 08/491,835
DATE FILED: Oct. 23, 1995
ART-UNIT: 182
PRIM-EXMR: Elizabeth C. Kemmerer
LEGAL-REP: Fish & Richardson, P.C.

US PAT NO: 5,821,056 [IMAGE AVAILABLE] L5: 4 of 33

ABSTRACT: Growth differentiation factor-9 (GDF-9) is disclosed along with its polynucleotide sequence and amino acid sequence. Also disclosed are diagnostic and therapeutic methods of using the GDF-9 polypeptide and polynucleotide sequences.

US PAT NO: 5,817,622 [IMAGE AVAILABLE] L5: 5 of 33
DATE ISSUED: Oct. 6, 1998
TITLE: Method for providing trophic support for neurons comprising administering neurturin
INVENTOR: Eugene M. Johnson, Jr., St. Louis, MO
Jeffrey D. Milbrandt, St. Louis, MO
Paul T. Kotzbauer, St. Louis, MO
Patricia A. Lampe, St. Louis, MO
ASSIGNEE: Washington University, St. Louis, MO (U.S. corp.)
APPL-NO: 08/777,019
DATE FILED: Dec. 30, 1996
ART-UNIT: 166
PRIM-EXMR: Stephen Walsh
LEGAL-REP: Michael P. Howell & Haferkamp, LC

US PAT NO: 5,817,622 [IMAGE AVAILABLE] L5: 5 of 33

ABSTRACT: A novel growth factor, neurturin, is disclosed. The human and mouse amino acid sequences have been identified. Human and mouse neurturin genomic DNA sequences have been cloned and sequences and the respective cDNA sequences identified. The subcloning into vectors and the preparation of cells stably transformed with the vectors is also disclosed. In addition, methods for treating degenerative conditions using neurturin, methods for detecting gene alterations and methods for detecting and monitoring

patient levels of neurturin are provided. Methods for identifying additional members of the neurturin-GDNF family of growth factors are also provided.

US PAT NO: 5,808,007 [IMAGE AVAILABLE] L5: 6 of 33
DATE ISSUED: Sep. 15, 1998
TITLE: "Growth" "differentiation" "factor" "3" "GDF" "3"
INVENTOR: Se-Jin Lee, Baltimore, MD
Alexandra C. McPherson, Baltimore, MD
The Johns Hopkins University School of Medicine, Baltimore, MD (U.S. corp.)
APPL-NO: 08/481,377
DATE FILED: Aug. 28, 1995
ART-UNIT: 182
PRIM-EXMR: Elizabeth C. Kemmerer
LEGAL-REP: Fish & Richardson, P.C.

US PAT NO: 5,808,007 [IMAGE AVAILABLE] L5: 6 of 33

ABSTRACT: "Growth" "differentiation" "factor" "3" "GDF" "3" is disclosed along with its polynucleotide sequence and amino acid sequence. Also disclosed are diagnostic and therapeutic methods of using the "GDF" "3" polypeptide and polynucleotide sequences.

US PAT NO: 5,807,713 [IMAGE AVAILABLE] L5: 7 of 33
DATE ISSUED: Sep. 15, 1998
TITLE: DNA encoding growth/differentiation factor
INVENTOR: Gertrud Hotten, Bochum, Federal Republic of Germany
Heide Weidhardt, Harburg, Federal Republic of Germany
Rolf Bechtold, Heidelberg, Federal Republic of Germany
Jens Pohl, Hambrucken, Federal Republic of Germany
Biopharm Gesellschaft zur Biotechnologischen Entwicklung, Heidelberg, Federal Republic of Germany (foreign corp.)
APPL-NO: 08/482,577
DATE FILED: Jun. 7, 1995
ART-UNIT: 182
PRIM-EXMR: John Ulm
ASSIST-EXMR: Prema Mertz
LEGAL-REP: Nikola Marmelstein Murray & Oran LLP

US PAT NO: 5,807,713 [IMAGE AVAILABLE] L5: 7 of 33

ABSTRACT: The invention concerns a protein of the TGF-beta. family, the DNA coding therefor and a pharmaceutical composition containing such a protein.

US PAT NO: 5,807,708 [IMAGE AVAILABLE] L5: 8 of 33
DATE ISSUED: Sep. 15, 1998
TITLE: Conserved nucleic acid molecules and compositions
INVENTOR: Dean A. Falb, Wellesley, MA
Carlos J. Gimeno, Boston, MA
Millennium Pharmaceuticals, Inc., Cambridge, MA (U.S. corp.)
APPL-NO: 08/688,609
DATE FILED: Jul. 30, 1996
ART-UNIT: 182
PRIM-EXMR: Stephen Walsh
ASSIST-EXMR: Claire M. Kaufman
LEGAL-REP: Lahive & Cockfield, LLP

US PAT NO: 5,807,708 [IMAGE AVAILABLE] L5: 8 of 33

ABSTRACT: The present invention relates to the discovery of novel conserved genes and polypeptides. Therapeutics, diagnostics and screening assays based on these molecules are also disclosed.

US PAT NO: 5,802,373 [IMAGE AVAILABLE] L5: 9 of 33
DATE ISSUED: Sep. 1, 1998
TITLE: Method for providing a pipeline interpreter for a variable length instruction set
INVENTOR: John S. Yates, Needham, MA
Stephen C. Root, Westboro, MA
ASSIGNEE: Digital Equipment Corporation, Maynard, MA (U.S. corp.)
APPL-NO: 08/592,982
DATE FILED: Jan. 29, 1996
ART-UNIT: 274
PRIM-EXMR: Emanuel Todd Voeltz
ASSIST-EXMR: Peter J. Corcoran, III
LEGAL-REP: Diane C. Broenski, Ronald C. Hudgens

US PAT NO: 5,802,373 [IMAGE AVAILABLE] L5: 9 of 33

ABSTRACT: A computer system for executing a binary image conversion system which converts instructions from one instruction set to a second, different, native computer system, includes an run-time system which in response to a non-native image of an application program written for a non-native instruction set provides an native instruction or a native instruction routine. The run-time system collects profile data in response to execution of the native instructions to determine execution characteristics of the non-native instruction. Thereafter, the non-native instructions and the profile statistics are fed to a binary translator operating in a background mode and which is responsive to the profile data generated by the run-time system to form a translated native image. The run-time system and the binary translator are under the control of a server process. The non-native image is executed in two different environments with first portion executed as an interpreted image and remaining portions as a translated image. The run-time system includes an interpreter which is capable of handling condition codes corresponding to the non-native architecture. A technique is also provided to jacket calls between the two execution environments and to support object based services. Preferred techniques are also provided to determine procedural translation units. Further, intermixed translation/optimization techniques are discussed.

US PAT NO: 5,801,014 [IMAGE AVAILABLE] L5: 10 of 33
DATE ISSUED: Sep. 1, 1998
TITLE: "Growth" "differentiation" "factor" "5" "GDF" "5"
INVENTOR: Se-Jin Lee, Baltimore, MD
Thanh Huynh, Baltimore, MD
The Johns Hopkins University School of Medicine, Baltimore, MD (U.S. corp.)
APPL-NO: 08/455,559
DATE FILED: May 31, 1995
ART-UNIT: 182
PRIM-EXMR: Elizabeth C. Kemmerer
ASSIST-EXMR: David E. Rome
LEGAL-REP: Fish & Richardson, P.C.

US PAT NO: 5,801,014 [IMAGE AVAILABLE] L5: 10 of 33

ABSTRACT: "Growth" "differentiation" "factor" "5" "GDF" "5" is disclosed along with its polynucleotide sequence and amino acid sequence. Also disclosed are diagnostic and therapeutic methods of using the "GDF" "5" polypeptide and polynucleotide sequences.

US PAT NO: 5,774,620 [IMAGE AVAILABLE] L5: 11 of 33
DATE ISSUED: Jun. 30, 1998
TITLE: Fluoride glass fiber
INVENTOR: Yoshiaki Nishida, Mito, Japan
Terutoshi Kanamori, Mito, Japan
Tadashi Sakamoto, Yokosuka, Japan
Tatsuke Ohishi, Mito, Japan
Shoichi Sudo, Mito, Japan
ASSIGNEE: Nippon Telegraph and Telephone Corporation, Tokyo, Japan (foreign corp.)
APPL-NO: 08/789,385
DATE FILED: Jan. 24, 1997
ART-UNIT: 251
PRIM-EXMR: John Ngo
LEGAL-REP: Spencer & Frank

US PAT NO: 5,774,620 [IMAGE AVAILABLE] L5: 11 of 33

ABSTRACT: This invention relates to fluoride glass with a specific composition having wide infrared transmission. A fluoride optical fiber using this fluoride glass can give high efficiency with a low loss. The fluoride optical fiber having a second cladding on the outer periphery of a first cladding can adjust the refractive index of the first cladding suitably.

US PAT NO: 5,770,444 [IMAGE AVAILABLE] L5: 12 of 33
DATE ISSUED: Jun. 23, 1998
TITLE: Growth differentiation factor-6
INVENTOR: Se-Jin Lee, Baltimore, MD
Thanh Huynh, Baltimore, MD
The Johns Hopkins University School of Medicine, Baltimore, MD (U.S. corp.)
APPL-NO: 08/561,529
DATE FILED: Oct. 15, 1996
ART-UNIT: 182
PRIM-EXMR: Elizabeth C. Kemmerer
LEGAL-REP: Fish & Richardson, P.C.

US PAT NO: 5,770,444 [IMAGE AVAILABLE] L5: 12 of 33

ABSTRACT: Growth differentiation factor-6 (GDF-6) polypeptides, polynucleotides

encoding GDF-6 polypeptides, and vectors and host cells containing GDF-6 encoding polynucleotides are provided.

US PAT NO: 5,747,655 [IMAGE AVAILABLE] L5: 13 of 33
DATE ISSUED: May 5, 1998
TITLE: Neurturin and related growth factors
INVENTOR: Eugene M. Johnson, Jr., St. Louis, MO
Jeffrey D. Milbrandt, St. Louis, MO
Paul T. Kotzbauer, St. Louis, MO
Patricia A. Lampe, St. Louis, MO
Washington University, St. Louis, MO (U.S. corp.)
APPL-NO: 08/742,035
DATE FILED: Nov. 1, 1996
ART-UNIT: 182
PRIM-EXMR: Stephen Walsh
ASST-EXMR: Michael Pak
LEGAL-REP: Howell & Haferkamp, L.C.
US PAT NO: 5,747,655 [IMAGE AVAILABLE] L5: 13 of 33

ABSTRACT:
A novel growth factor, neurturin, is disclosed. The human and mouse amino acid sequences have been identified. Human and mouse neurturin genomic DNA sequences have been cloned and sequences and the respective cDNA sequences identified. The subcloning into vectors and the preparation of cells stably transformed with the vectors is also disclosed. In addition, methods for treating degenerative conditions using neurturin, methods for detecting gene alterations and methods for detecting and monitoring patient levels of neurturin are provided. Methods for identifying additional members of the neurturin-GDNF family of growth factors are also provided.

US PAT NO: 5,739,307 [IMAGE AVAILABLE] L5: 14 of 33
DATE ISSUED: Apr. 14, 1998
TITLE: Polynucleotide encoding neurturin neurotrophic factor
INVENTOR: Eugene M. Johnson, Jr., St. Louis, MO
Jeffrey D. Milbrandt, St. Louis, MO
Paul T. Kotzbauer, St. Louis, MO
Patricia A. Lampe, St. Louis, MO
Washington University, St. Louis, MO (U.S. corp.)
APPL-NO: 08/519,777
DATE FILED: Aug. 28, 1995
ART-UNIT: 182
PRIM-EXMR: Stephen Walsh
ASST-EXMR: Michael D. Pak
LEGAL-REP: Howell & Haferkamp, L.C.
US PAT NO: 5,739,307 [IMAGE AVAILABLE] L5: 14 of 33

ABSTRACT:
A novel growth factor, neurturin, is disclosed. The human and mouse amino acid sequences have been identified. Human and mouse neurturin genomic DNA sequences have been cloned and sequences and the respective cDNA sequences identified. The subcloning into vectors and the preparation of cells stably transformed with the vectors is also disclosed. In addition, methods for treating degenerative conditions using neurturin, methods for detecting gene alterations and methods for detecting and monitoring patient levels of neurturin are provided. Methods for identifying additional members of the neurturin-GDNF family of growth factors are also provided.

US PAT NO: 5,733,121 [IMAGE AVAILABLE] L5: 15 of 33
DATE ISSUED: Mar. 31, 1998
TITLE: Mandible lock device
INVENTOR: MacDonald H. Goods, P.O. Box 172, Southfield, MI 48037
APPL-NO: 08/827,947
DATE FILED: May 1, 1997
ART-UNIT: 333
PRIM-EXMR: Nicholas D. Lucchesi
LEGAL-REP: Robert A. Spray, Patent Attorney
US PAT NO: 5,733,121 [IMAGE AVAILABLE] L5: 15 of 33

ABSTRACT:
A lock device for holding "open" position of a person's mandible (lower) jaw bone, for facilitating medical treatments such as emergency intubation and other procedures, dental work, etc., particularly on a patient who is either unconscious or for some other reason is not cooperative.
A pair of force lugs, carried on support-beam members, are for imposing a force oppositely against a person's mandible teeth set and upper or skull (maxilla) teeth set. The beam members are pivotally interconnected; and have an extension arm extending rearwardly extending from the outer end, being a retroflex member which in use of the device extends generally horizontally and rearwardly along the person's cheek, providing ease of manual grasping and other advantages.

US PAT NO: 5,728,679 [IMAGE AVAILABLE] L5: 16 of 33
DATE ISSUED: Mar. 17, 1998
TITLE: BMP-15 compositions
INVENTOR: Anthony J. Celeste, Hudson, MA
Jennifer L. Dube, Arlington, MA
Karen M. Lyons, Sherman Oaks, CA
Brigid Hogan, Brentwood, TN
Genetics Institute, Inc., Cambridge, MA (U.S. corp.)
Vanderbilt University, Nashville, TN (U.S. corp.)
APPL-NO: 08/798,665
DATE FILED: Feb. 11, 1997
ART-UNIT: 184
PRIM-EXMR: Robert A. Wax
ASST-EXMR: Lisa J. Hobbs
LEGAL-REP: Steven R. Lazar, Thomas J. DesRosier
US PAT NO: 5,728,679 [IMAGE AVAILABLE] L5: 16 of 33

ABSTRACT:
Purified BMP-15-related proteins and processes for producing them are disclosed. DNA molecules encoding the BMP-15-related proteins are also disclosed. The proteins may be used in the treatment of bone and cartilage and/or other connective tissue defects and in wound healing and related tissue repair.

US PAT NO: 5,721,210 [IMAGE AVAILABLE] L5: 17 of 33
DATE ISSUED: Feb. 24, 1998
TITLE: Cyclic cell adhesion modulation compounds
INVENTOR: Thomas J. Lohi, Encinitas, CA
Shiu-Lan Chiang, San Diego, CA
Pina M. Cardarelli, Solana Beach, CA
Tanabe Seiyaku Co., Ltd., Osaka, Japan (foreign corp.)
APPL-NO: 08/401,019
DATE FILED: Jun. 7, 1995
ART-UNIT: 181
PRIM-EXMR: Cecilia Li, Tsang
ASST-EXMR: S. G. Marshall
LEGAL-REP: Fish & Richardson P.C.
US PAT NO: 5,721,210 [IMAGE AVAILABLE] L5: 17 of 33

ABSTRACT:
Cyclized integrin receptor antagonist compounds useful in modulating cell adhesion, including adhesion related to fibronectin, as well as leukocyte adhesion to endothelial cells, are disclosed. Methods for synthesizing, testing, formulating, and using the compounds as therapeutic agents are also disclosed.

US PAT NO: 5,700,774 [IMAGE AVAILABLE] L5: 18 of 33
DATE ISSUED: Dec. 23, 1997
TITLE: Compositions comprising bone morphogenic proteins and truncated parathyroid hormone related peptide, and methods of inducing cartilage by administration of same
INVENTOR: Gary Hattersley, Cambridge, MA
Vicki A. Rosen, Chestnut Hill, MA
Genetics Institute, Inc., Cambridge, MA (U.S. corp.)
APPL-NO: 08/622,101
DATE FILED: Mar. 26, 1996
ART-UNIT: 181
PRIM-EXMR: David L. Fitzgerald
ASST-EXMR: Elizabeth C. Kemmerer
LEGAL-REP: M. C. Meinert, S. Lazar
US PAT NO: 5,700,774 [IMAGE AVAILABLE] L5: 18 of 33

ABSTRACT:
Compositions of proteins with chondrocyte and cartilaginous tissue inducing activity, as well as method of using those compositions, are disclosed. The disclosed compositions are or more proteins of the transforming growth factor-beta (TGF-beta) superfamily of proteins, particularly bone morphogenic proteins (BMPs), in combination with parathyroid hormone related peptide (PTHrP) or an equivalent PTH-like polypeptide. The compositions and methods are useful in the treatment of osteoarthritis, cartilage defects and in related tissue repair.

US PAT NO: 5,693,779 [IMAGE AVAILABLE] L5: 19 of 33
DATE ISSUED: Dec. 2, 1997
TITLE: Production and use of anti-dorsalizing morphogenetic protein
INVENTOR: Malcolm Moos, Jr., Bethesda, MD
Marie Krinks, Rockville, MD
Shouwen Wang, Rockville, MD
The United States of America as represented by the Department of Health and Human Services, Washington, DC (U.S. govt.)
APPL-NO: 08/335,583

DATE FILED: Nov. 8, 1994
ART-UNIT: 181
PRIM-EXMR: Vasu S. Jagannathan
ASST-EXMR: David Romeo
LEGAL-REP: Knobbe, Martens, Olson & Bear, LLP
US PAT NO: 5,693,779 [IMAGE AVAILABLE] L5: 19 of 33

ABSTRACT:
An isolated polynucleotide of anti-dorsalizing morphogenetic protein (ADMP-1) is obtained from Xenopus. The protein is most closely related to human BMP-3. ADMP-1 functions as a modulator for dorsalizing influences, and prevents syndromes involving inappropriate proliferation of tissues.

US PAT NO: 5,658,882 [IMAGE AVAILABLE] L5: 20 of 33
DATE ISSUED: Aug. 19, 1997
TITLE: Methods of inducing formation of tendon and/or ligament tissue comprising administering BMP-12, BMP-13, and/or MP-52
INVENTOR: Anthony J. Celeste, Hudson, MA
John W. Wozney, Hudson, MA
Vicki A. Rosen, Brookline, MA
Neil M. Wolfman, Dover, MA
Gerald H. Thomson, Port Jefferson, NY
Douglas A. Melton, Lexington, MA
Genetics Institute, Inc., Cambridge, MA (U.S. corp.)
President and Fellows of Harvard College, Cambridge, MA (U.S. corp.)
APPL-NO: 08/362,670
DATE FILED: Dec. 22, 1994
ART-UNIT: 181
PRIM-EXMR: Vasu S. Jagannathan
ASST-EXMR: Elizabeth C. Kemmerer
LEGAL-REP: Steven R. Lazar, Thomas J. DesRosier
US PAT NO: 5,658,882 [IMAGE AVAILABLE] L5: 20 of 33

ABSTRACT:
The present invention relates to methods for the induction of tendon/ligament-like tissue formation, wound healing and ligament and other tissue repair, using a composition comprising BMP-12, BMP-13 or MP-52, or combinations of the above.

US PAT NO: 5,635,372 [IMAGE AVAILABLE] L5: 21 of 33
DATE ISSUED: Jun. 3, 1997
TITLE: BMP-15 compositions
INVENTOR: Anthony J. Celeste, Hudson, MA
Jennifer L. Dube, Arlington, MA
Karen M. Lyons, Sherman Oaks, CA
Brigid Hogan, Brentwood, TN
Genetics Institute, Inc., Cambridge, MA (U.S. corp.)
Vanderbilt University, Nashville, TN (U.S. corp.)
APPL-NO: 08/426,413
DATE FILED: May 18, 1995
ART-UNIT: 184
PRIM-EXMR: Robert A. Wax
ASST-EXMR: Lisa J. Hobbs
LEGAL-REP: Steven R. Lazar, Thomas J. DesRosier
US PAT NO: 5,635,372 [IMAGE AVAILABLE] L5: 21 of 33

ABSTRACT:
Purified BMP-15-related proteins and processes for producing them are disclosed. DNA molecules encoding the BMP-15-related proteins are also disclosed. The proteins may be used in the treatment of bone and cartilage and/or other connective tissue defects and in wound healing and related tissue repair.

US PAT NO: 5,552,667 [IMAGE AVAILABLE] L5: 22 of 33
DATE ISSUED: Sep. 3, 1996
TITLE: Apparatus and method for generating photoluminescence emission lines from rare-earth-element-doped CaF₂ thin films over a Si-based substrate
INVENTOR: Chin-Chen Cho, Richardson, TX
Tsien H. Lin, Dallas, TX
Shou-Kong Fan, Richardson, TX
Texas Instrument Incorporated, Dallas, TX (U.S. corp.)
APPL-NO: 08/426,413
DATE FILED: May 17, 1995
ART-UNIT: 225
PRIM-EXMR: Sandra L. O'Shea
LEGAL-REP: Michael K. Skrehot, James C. Kesterson, Richard L. Donaldson
US PAT NO: 5,552,667 [IMAGE AVAILABLE] L5: 22 of 33

ABSTRACT:
A method and apparatus for producing photoluminescence emissions (68) from thin CaF₂ sub.2 films grown on either silicon or silicon/aluminum substrate shown narrow emission lines with high emission intensities for CaF₂ sub.2 with thickness as low as 0.2 μm. The preferred embodiment is doped with a rare-earth such as Nd.

US PAT NO: 5,539,702 [IMAGE AVAILABLE] L5: 23 of 33
DATE ISSUED: Feb. 14, 1994
TITLE: Test apparatus for semi-conductor memory device
INVENTOR: Yeong-Chang Ahn, Seoul, Republic of Korea
Goldstar Electron Co., Ltd., Choongchungbook-Do, Republic of Korea (foreign corp.)
APPL-NO: 08/195,069
DATE FILED: Feb. 14, 1994
ART-UNIT: 243
PRIM-EXMR: Robert W. Beausoliel, Jr.
ASST-EXMR: Phung M. Chung
LEGAL-REP: Lowe, Price, LeBlanc & Becker
US PAT NO: 5,539,702 [IMAGE AVAILABLE] L5: 23 of 33

ABSTRACT:
A test apparatus for a semi-conductor memory device comprising a memory section having a plurality of memory cell arrays the memory cell arrays receiving input data in parallel, a latch control circuit responsive to a write enable signal and an address signal for outputting a control signal for latching the input data while the input data is written into the memory section, an expected data latch circuit responsive to the control signal from the latch control circuit and a read enable signal for latching the input data while the input data is written into the memory section and outputting the resultant expected data, a clock generator for generating a clock signal in response to a test flag signal and an internal column address select signal, an expected data transfer circuit for transferring the expected data from the expected data latch circuit in response to the test enable signal and the read enable signal, a data discrimination circuit for discriminating whether output data from the memory section are the same as the expected data from the expected data transfer circuit, and an output circuit for outputting a fail signal in response to output signals from the data discrimination circuit.

US PAT NO: 5,504,780 [IMAGE AVAILABLE] L5: 24 of 33
DATE ISSUED: Apr. 2, 1996
TITLE: Adaptive equalizer using self-learning neural network
INVENTOR: Joshua Alsapector, Watfield, NJ
Timothy X. Brown, Mendham, NJ
Anthony Jayakumar, Somerset, NJ
Bell Communications Research Inc., Livingston, NJ (U.S. corp.)
APPL-NO: 08/178,228
DATE FILED: Dec. 6, 1994
ART-UNIT: 262
PRIM-EXMR: Edward L. Coles, Sr.
ASST-EXMR: Madeleine Anh-Vinh Nguyen
LEGAL-REP: Leonard Charles Suchyta, James W. Falk
US PAT NO: 5,504,780 [IMAGE AVAILABLE] L5: 24 of 33

ABSTRACT:
A channel equalizer is formed using a self-learning neural network. During a training period, the neural network is taught the channel response function. The network is then used to equalize distortions introduced into signals by the channel. The neural network may be a Boltzmann Machine type of neural network comprising neurons arranged in an input layer, a hidden layer, and an output layer. The neurons are interconnected by bidirectional symmetric weighted synapses. Each neuron is preferably implemented by an analog integrated circuit. Direct communication between the input and output layers helps in faster channel acquisition. The scheme can very easily be extended to multilevel and multisymbol modulation schemes such as QAM and PSK.

US PAT NO: 5,480,845 [IMAGE AVAILABLE] L5: 25 of 33
DATE ISSUED: Jan. 2, 1996
TITLE: Fluorinated glasses
INVENTOR: Gwendael Mase, Saint Erblon, France
Marcel Poulain, Rennes, France
Jean Y. Sarre, Saint Erblon, France
Abdelouah Soufiane, Casablanca, Morocco
Younes Messaddeq, Kenitra, Morocco
Sergey Fluore SA, France (foreign corp.)
APPL-NO: 08/425,214
DATE FILED: Apr. 18, 1995
ART-UNIT: 181
PRIM-EXMR: Mark L. Bell
ASST-EXMR: David Sample
LEGAL-REP: Laff, Whitesel, Conte & Saret, Ltd.

US PAT NO: 5,480,845 [IMAGE AVAILABLE] L5: 25 of 33

ABSTRACT:

Fluorinated glasses containing indium fluoride and MF₂ sub.2 fluorides in at least 70 mole %, in which M denotes one or several elements of the group Ba, Sr, Ca, Pb. Said glasses contains, in the form of stabilizing elements, either 2 to 12 gadolinium fluoride, or 2 to 10 magnesium fluoride, or else a mixture of both fluorides in a proportion not exceeding 20 mole %. Variants of these compositions are also described.

US PAT NO: 5,475,698 [IMAGE AVAILABLE] L5: 26 of 33

DATE ISSUED: Dec. 12, 1995
TITLE: Light emission from rare-earth element-doped CaF₂ sub.2 thin films
INVENTOR: Chih-Chen Cho, Richardson, TX
ASSIGNEE: Texas Instruments Incorporated, Dallas, TX (U.S. corp.)
APPL-NO: 08/324,637
DATE FILED: Oct. 18, 1994
ART-UNIT: 251
PRIM-EXMR: Leon Scott, Jr.
LEGAL-REP: Michael K. Skrehot, James C. Kesterson, Richard L. Donaldson

US PAT NO: 5,475,698 [IMAGE AVAILABLE] L5: 26 of 33

ABSTRACT:
By growing semi-insulating CaF₂ sub.2 films (296) on a silicon substrate (240), forming superlattice structures (260) made of CaF₂ sub.2 :Nd and other semiconductor layers (294) and by associating a co-dopant with Nd in the CaF₂ sub.2 films photoluminescence efficiency of CaF₂ sub.2 films is increased. This permits using electrons to produce photons and controlling optoelectronic devices using CaF₂ sub.2 films through voltage variation.

US PAT NO: 5,412,256 [IMAGE AVAILABLE] L5: 27 of 33

DATE ISSUED: May 2, 1995
TITLE: Neuron for use in self-learning neural network
INVENTOR: Joshua Alspector, Westfield, NJ
ASSIGNEE: Bell Communications Research, Inc., Livingston, NJ (U.S. corp.)
APPL-NO: 08/178,428
DATE FILED: Jan. 6, 1994
ART-UNIT: 259
PRIM-EXMR: Edward P. Westin
ASST-EXMR: Richard Roseen
LEGAL-REP: Leonard Charles Suchyta, Loria B. Yeadon

US PAT NO: 5,412,256 [IMAGE AVAILABLE] L5: 27 of 33

ABSTRACT:
A neuron for use in a self-learning neural network comprises a current input node at which a plurality of synaptic input currents are summed using Kirchhoff's current law. The summed input currents are normalized using a coarse gain current normalizer. The normalized summed inputs current is then converted to a voltage using a current to voltage converter. This voltage is then amplified by a gain controlled cascode output amplifier. Gain control inputs are provided in the output amplifier so that the neuron can be settled by the Mean Field Approximation. A noise input stage is also connected to the output amplifier so that the neuron can be settled using simulated annealing. The resulting neuron is a variable gain, bi-directional current transimpedance neuron with a controllable noise input.

US PAT NO: 5,384,795 [IMAGE AVAILABLE] L5: 28 of 33

DATE ISSUED: Jan. 24, 1995
TITLE: Thin films by electroluminescence
INVENTOR: Chih-Chen Cho, Richardson, TX
ASSIGNEE: Texas Instruments Incorporated, Dallas, TX (U.S. corp.)
APPL-NO: 07/954,197
DATE FILED: Sep. 30, 1992
ART-UNIT: 251
PRIM-EXMR: Leon Scott, Jr.
LEGAL-REP: Michael K. Skrehot, James C. Kesterson, Richard L. Donaldson

US PAT NO: 5,384,795 [IMAGE AVAILABLE] L5: 28 of 33

ABSTRACT:
By growing semi-insulating CaF₂ sub.2 films (272) on a silicon substrate (240), forming superlattice structures (260) made of CaF₂ sub.2 :Nd and other semiconductor layers (294) and by associating a co-dopant with Nd in the CaF₂ sub.2 films photoluminescence efficiency of CaF₂ sub.2 films is increased. This permits using electrons to produce photons and controlling optoelectronic devices using CaF₂ sub.2 films through voltage variation.

US PAT NO: 5,369,657 [IMAGE AVAILABLE] L5: 29 of 33

DATE ISSUED: Nov. 29, 1994
TITLE: Silicon-based microlaser by doped thin films
INVENTOR: Chih-Chen Cho, Richardson, TX
ASSIGNEE: Texas Instruments Incorporated, Dallas, TX (U.S. corp.)
APPL-NO: 07/845,991
DATE FILED: Sep. 15, 1992
ART-UNIT: 251
PRIM-EXMR: Leon Scott, Jr.
LEGAL-REP: Michael K. Skrehot, James C. Kesterson, Richard L. Donaldson

US PAT NO: 5,369,657 [IMAGE AVAILABLE] L5: 29 of 33

ABSTRACT:
A silicon-based microlaser formed of rare-earth-doped CaF₂ sub.2 thin films has a semiconductor substrate material (240) and a CaF₂ sub.2 film layers (234) grown on semiconductor substrate material (240). The CaF₂ sub.2 film layer (234) is doped with a predetermined amount of rare-earth-dopant that is sufficient to cause a spectral emission from the CaF₂ sub.2 film layer (234) having a narrow linewidth when the CaF₂ sub.2 film layer (234) is optically or electrically pumped.

US PAT NO: 5,306,385 [IMAGE AVAILABLE] L5: 30 of 33

DATE ISSUED: Apr. 26, 1994
TITLE: Method for generating photoluminescence emission lines from transition element doped CaF₂ thin films over a Si-based substrate
INVENTOR: Chih-Chen Cho, Richardson, TX
ASSIGNEE: Texas Instruments Incorporated, Dallas, TX (U.S. corp.)
APPL-NO: 07/954,136
DATE FILED: Sep. 30, 1992
ART-UNIT: 117
PRIM-EXMR: Olak Chaudhuri
ASST-EXMR: Ramanohar Rao Paladugu
LEGAL-REP: Michael K. Skrehot, James C. Kesterson, Richard L. Donaldson

US PAT NO: 5,306,385 [IMAGE AVAILABLE] L5: 30 of 33

ABSTRACT:
A method and apparatus for producing photoluminescence emissions (68) from thin CaF₂ sub.2 films grown on either silicon or silicon/aluminum substrate showing narrow emission linewidth and high emission intensities for CaF₂ sub.2 with thickness as low as 0.2 μm. The preferred embodiment is doped with a rare-earth such as Nd.

US PAT NO: 5,305,273 [IMAGE AVAILABLE] L5: 31 of 33

DATE ISSUED: Apr. 19, 1994
TITLE: Semiconductor memory device
INVENTOR: Toshikatsu Jinbo, Tokyo, Japan
ASSIGNEE: NEC Corporation, Tokyo, Japan (foreign corp.)
APPL-NO: 07/942,500
DATE FILED: Sep. 10, 1992
ART-UNIT: 251
PRIM-EXMR: Eugene R. LaRoche
ASST-EXMR: A. Zarabian
LEGAL-REP: Sughrue, Mion, Zinn, Macpeak & Seas

US PAT NO: 5,305,273 [IMAGE AVAILABLE] L5: 31 of 33

ABSTRACT:
A semiconductor memory device has a matrix of memory cells interconnected by a plurality of column and row lines to form a channel between one of the column lines and a voltage source corresponding to a specified status. A sensing circuit connects or disconnects an output node where the current is supplied from the voltage source with the input node which indicates the status of the specified memory cell. A reference voltage generation circuit generates the reference voltage. A comparison circuit generates a signal to indicate the specified status of the selected memory cell. Between the output and input nodes of the sensing circuit, a first transistor under gate control by a reverse voltage of the input node voltage is connected and between the input node of the sensing circuit and the output node of the reference voltage generation circuit, a second transistor under gate control by the reverse voltage is also provided. The column line of the selected memory cell is charged by the voltage source of the sensing circuit via the first transistor and also by the voltage source of the reference voltage generation circuit via the second transistor.

US PAT NO: 5,301,149 [IMAGE AVAILABLE] L5: 32 of 33

DATE ISSUED: Apr. 5, 1994
TITLE: Data read-out circuit for semiconductor memory device
INVENTOR: Toshikatsu Jinbo, Tokyo, Japan
ASSIGNEE: NEC Corporation, Tokyo, Japan (foreign corp.)
APPL-NO: 07/871,102
DATE FILED: Apr. 20, 1992
ART-UNIT: 251
PRIM-EXMR: Joseph A. Popek
LEGAL-REP: Sughrue, Mion, Zinn, Macpeak & Seas

US PAT NO: 5,301,149 [IMAGE AVAILABLE] L5: 32 of 33

ABSTRACT:
A data read-out circuit in the semiconductor memory device has a sense circuit which detects the state of a selected memory cell and outputs a sense output voltage, a reference voltage generating circuit which outputs a reference voltage, and a comparison amplifier which compares the sense output voltage with the reference voltage and outputs an output voltage. The data read-out circuit further has a reference voltage control circuit consisting of a P-channel MOSFET connected between a power supply source and an output node of the reference voltage generating circuit. A gate of the P-channel MOSFET receives the sense output voltage from the sense circuit. When the sense output voltage is a low level, the P-channel MOSFET becomes conductive and the reference output voltage is changed to a high level substantially equal to the power supply voltage, and when the sense output voltage is a high level, the P-channel MOSFET becomes non-conductive and the reference output voltage is changed to a low level substantially equal to the ground potential. Therefore, the data read-out circuit has a wide operation margin and operates in low power consumption.

US PAT NO: 5,039,886 [IMAGE AVAILABLE] L5: 33 of 33

DATE ISSUED: Aug. 13, 1991
TITLE: Current mirror type level converters
INVENTOR: Kazuyuki Nakamura, Tokyo, Japan
ASSIGNEE: NEC Corporation, Tokyo, Japan (foreign corp.)
APPL-NO: 07/528,550
DATE FILED: May 25, 1990
ART-UNIT: 254
PRIM-EXMR: Stanley D. Miller
ASST-EXMR: Margaret Rose Wambach
LEGAL-REP: Whitham & Harhoefer

US PAT NO: 5,039,886 [IMAGE AVAILABLE] L5: 33 of 33

ABSTRACT:
A current mirror type level converter which makes it unnecessary to prepare the complementary signals of input signals by connecting a load transistor which is in the normally energized state regardless of the states of the input signals to the side where a mirror current flows and the load transistor also determines the output level. Further, a mirror input current is caused to flow by the result of a logic operation of the input signals, a mirror current supplying transistor is shared among a plurality of current mirror type level converters, an output signal is fed back positively accompanying a delay, and a feedback transistor is whose control terminal is applied the positive feedback signal is connected in parallel with the load transistor in order to realize an increase in the speed of the operation of the converter.

=> s mp 52

29697 MP

8314052

L6 347 MP 52

(MP(W)52)

=> s 16 and (435/69-70/cclst or 530/350-399/cclst or 514/12/cclst)

'435/69' IS NOT A RECOGNIZED CLASS/SUBCLASS VALUE FOR RANGE SEARCHING.

'435/70' IS NOT A RECOGNIZED CLASS/SUBCLASS VALUE FOR RANGE SEARCHING.

=> s 16 and (435/69.1-69.7/cclst or 530/350-399/cclst or 514/12/cclst)

4833 435/69.1-69.7/CCLST (9 TERMS)

(435/69.1-69.7/CCLST (86 TERMS)

12004 530/350-399/CCLST (86 TERMS)

(530/350-399/CCLST (86 TERMS)

1964 514/12/CCLST

L7 5 16 AND (435/69.1-69.7/CCLST OR 530/350-399/CCLST OR 514/12/

CCL 51)

=> s 16 and (435 or 530 or 514 or 424)/clas

43584 435/CLAS

21671 530/CLAS

78209 514/CLAS

43781 424/CLAS

L8 171 16 AND (435 OR 530 OR 514 OR 424)/CLAS

=> d his

L1 (FILE 'USPAT' ENTERED AT 08:02:22 ON 10 NOV 1998)

ENT 363 S MP52 OR (MP 52) OR GDF5 OR (GDF 5) OR ((GROWTH(1A))DIFFER

L2 0 S L1 AND (530, 435, 514/COR)

L3 0 S L1 AND (530, 435, 514/COR)

L4 178 S L1 AND (530 OR 435 OR 514/CLAS)

L5 33 S MP52 OR GDF5 OR GDF3 OR ((GDF OR ((GROWTH(1A))DIFFERENTIA

L6 347 S MP 52

L7 5 S L6 AND (435/69.1-69.7/CCLST OR 530/350-399/CCLST OR 514/

L8 171 S L6 AND (435 OR 530 OR 514 OR 424)/CLAS

=> s 17 not 15

L9 3 17 NOT L5

=> d bib ab 1-

US PAT NO: 5,567,411 [IMAGE AVAILABLE] L9: 1 of 3

DATE ISSUED: Sep. 13, 1994

TITLE: Dendritic amplifier molecules having multiple terminal

active groups stemming from a benzyl core group

INVENTOR: John F. W. Keane, Eugene, OR

Vladimir Martin, Eugene, OR

William H. Ralston, St. Charles, MO

ASSIGNEE: State of Oregon Acting by and Through the State Board of

Higher Education on Behalf of the University of Oregon,

Eugene, OR (U.S. corp.)

APPL-NO: 08/316,781

DATE FILED: Sep. 13, 1994

ART-UNIT: 121

PRIM-EXMR: Floyd D. Higell

LEGAL-REP: Klarnquist Sparkman Campbell Leigh & Whinston, LLP

US PAT NO: 5,567,411 [IMAGE AVAILABLE] L9: 1 of 3

ABSTRACT:

Dendritic derivatives of 3,3-bis(aminomethyl)benzene and aminomethyl

benzene core groups are disclosed. In each derivative, termed an

"amplifier" because the dendritic structure on each molecule terminates

with multiple terminal to each of which an "active group" can be attached,

the desired effect of the active group per mole is amplified compared to

conventional compounds having only one active group per molecule.

Amplifier molecules can include a targeting group permitting the

molecules to preferentially attach to a particular anatomical or

physiological situs. Active groups are any of various pharmacologically

or therapeutically active moieties, including moieties useful for

magnetic-resonance contrast enhancement. The dendritic structures

comprise linkers and branch groups covalently bonded to each other in any

of various structural combinations. The amplifiers can be prepared as a

solution or mixture with a physiologically compatible carrier for

administration to a warm-blooded animal subject. Also disclosed are

methods for using the compounds in diagnosis and therapy, such as

obtaining a magnetic resonance image of a subject.

US PAT NO: 5,141,924 [IMAGE AVAILABLE] L9: 2 of 3

DATE ISSUED: Aug. 25, 1992

TITLE: Synthetic vasoactive intestinal peptide analogs

INVENTOR: David R. Ralston, Nutley, NJ

ASSIGNEE: Hoffmann-La Roche, Inc., Nutley, NJ (U.S. corp.)

APPL-NO: 07/374,503

DATE FILED: Sep. 30, 1989

ART-UNIT: 181

PRIM-EXMR: Merrell C. Cashion, Jr.

ASST-EXMR: D. W. Wadsworth

LEGAL-REP: George M. Gould, William H. Epstein, Bruce A. Pokras

US PAT NO: 5,141,924 [IMAGE AVAILABLE] L9: 2 of 3

ABSTRACT:

Vasoactive intestinal peptide analogs containing substitutions of

appropriately selected amino acids at specific positions of the Vip

molecule.

US PAT NO: 5,061,710 [IMAGE AVAILABLE] L9: 3 of 3

DATE ISSUED: Oct. 29, 1991

TITLE: Mercapto-acylamino acid antihypertensives

INVENTOR: Martin P. Haslanger, Ridgewood, NJ

Bernard R. Neustadt, West Orange, NJ

Elizabeth R. Smith, Verona, NJ

Schering Corporation, Kenilworth, NJ (U.S. corp.)

APPL NO: 07/133,669

DATE FILED: Dec. 16, 1987

ART UNIT: 1231

PRIM EXMR: Mary C. Lee

ASST EXMR: Robert J. Whittenbaugh

LEGAL REP: Anita A. W. Medatti, James Nelson

US PAT NO: 5,061,710 [IMAGE AVAILABLE] L9: 3 of 3

ABSTRACT:
Novel mercapto-acylamino acids useful in the treatment of hypertension and combinations of mercapto-acylamino acids and atrial natriuretic factors or angiotensin converting enzyme inhibitors useful for treating hypertension are disclosed.

=> d kwic 2

US PAT NO: 5,141,924 [IMAGE AVAILABLE] L9: 2 of 3
US-CL-CURRENT: *53/412** 20: 530/324, 325; 930/170, DIG.800, DIG.820, DIG.821

DETDSC:

DETD (149)

988 and concentrated to an oil. This material was crystallized from EtOAc/hexane to give 1.14 g (82%) of fine white needles. mp: 52.5-53.0 degrees C. [alpha]_D 20 +23.13 degrees, [c] 1. Sub. 10 NMR compatible with structure. Anal. calcd for C₁₄H₁₈N₂O₄ S₂ sub. 4: C, 50.00%; H, 5.00%; N, 12.50%; S, 32.50%.

=> d his: log y

(FILE 'USPAT' ENTERED AT 08:02:22 ON 10 NOV 1998)
L1 363 S MP52 OR (MP 52) OR GDF5 OR (GDF 5) OR ((GROWTH(1A))DIFFER
L2 0 S L1 AND (530, 435, 514/COR)
L3 0 S L1 AND (530, 435, 514/CLAS)
L4 0 S L1 AND (530 OR 435 OR 514/CLAS)
L5 39 S MP52 OR GDF5 OR GDF3 OR (GDF OR ((GROWTH(1A))DIFFERENTIA
TIO
L6 347 S MP 52
L7 0 S L6 AND (435/69.1-69.7/CCLST OR 530/350-399/CCLST OR 514/
L8 171 S L6 AND (435 OR 530 OR 514 OR 424/CLAS
L9 0 S L7 NOT L5

U.S. Patent & Trademark Office LOGOFF AT 08:33:23 ON 10 NOV 1998

FILE 'HOME' ENTERED AT 08:55:43 ON 10 NOV 1998

=> file medline

=> s mp52 or (mp 52) or gdf5 or gdf3 or ((gdf or ((growth(1a))differentiation)) (w factor)) (w (3 or 5))

0 MP52
3823 MP
71804 52
0 MP 52
(MP(M)52)
9 GDF5
9 GDF3
474998 GROWTH
145979 DIFFERENTIATION
37768 FACTOR
1591987 3
1272154 3
L1 26 (GDF OR ((GROWTH(1A))DIFFERENTIATION)) (W FACTOR)) (W (3 OR 5))
L2 28 MP52 OR (MP 52) OR GDF5 OR GDF3 OR (GDF OR ((GROWTH(1A))DI
FFERENTIATION)) (W FACTOR)) (W (3 OR 5))

=> d au ti so ab 1-

YOU HAVE REQUESTED DATA FROM 28 ANSWERS - CONTINUE? Y/(N):y

L1 ANSWER 1 OF 28 MEDLINE
AU Williamson C M; Beechey C V; Ball S T; Dutton E R; Cattanech B M;
Tease C; Ishino F; Peters J
TI Localization of the imprinted gene *neuronatin*, *Nnat*, confirms and
refines the location of a second imprinting region on mouse
chromosome 2
SO GENOMICS AND CELL GENETICS, (1998) 81 (1) 73-8.
Journal code: DXK. ISSN: 0301-0171.
AB Nine regions on six mouse autosomes are subject to imprinting and
uniparental inheritance of any one of these regions results in mice
with phenotypic anomalies. So far on distal Chromosome (Chr) 2 there
is a unique imprinting region between 2H3 and 2H4 associated with
two behavioural disorders and neonatal lethality. A maternally
imprinted gene, *Nnat*, has been identified which is expressed in the
nervous system and maps to distal Chr 2. *Nnat* has been excluded as a
candidate for either the behavioural phenotypes as it lies
proximal to the 2H3-2H4 imprinting region. Here we have mapped *Nnat*
to band 2H1 which is at least 18 Mb proximal to the previously
described imprinting region. It maps close to, and some alleles
of which show differential expression according to parental origin.
The localization of *Nnat* to band H1 confirms and refines the map
location of a second imprinting region on mouse Chr 2.

L1 ANSWER 2 OF 28 MEDLINE
AU Brunet J; McMahon J A; McMahon A P; Harland R M
TI Noggin, cartilage morphogenesis, and joint formation in the
mammalian skeleton [see comments].
SO SCIENCE, (1998 May 29) 280 (5368) 1455-7.
Journal code: U77. ISSN: 0036-8075.
AB Noggin is a bone morphogenetic protein (BMP) antagonist expressed in
Spemann's organizer. Mouse Noggin is expressed in a family of
cartilage and immature chondrocytes, as are many BMPs. In mice
lacking Noggin, cartilage condensations initiated normally but
developed hyperplasia and initiation of joint development failed as
measured by the expression of "GDF5". "GDF5" is a member of the
"GDF" family. "GDF5" is a member of the "GDF" family. The maturation
of cartilage and bone expression was reduced. Excess BMP
activity in the absence of Noggin antagonism may enhance the
recruitment of cells into cartilage, resulting in oversized growth
plates; chondrocytes are also refractory to joint-inducing
positional cues.

L1 ANSWER 3 OF 28 MEDLINE
AU Morimoto Y; Goseki-Sone M; Ishikawa I; Oida S
TI Gene expression of growth and differentiation factors-5, -6, and -7
in developing bovine rat tooth forming stage [published
erratum appears in Biochem Biophys Res Commun 1998 May
29;246(3):925].
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1998 Mar 6)
244 (1) 85-90.
Journal code: 9YB. ISSN: 0006-291X.
AB Growth and differentiation factors (GDF) are members of the bone morphogenetic protein (BMP) family, and
previous studies suggest their importance in bone development and in
tendon/ligament morphogenesis. The cells of the dental attachment
apparatus, cementum, periodontal ligament, and alveolar bone proper
are derived from the dental follicle proper. In this study, we
investigated the expression of "GDF5", "GDF6", and "GDF7"
genes in tissues of the bovine incisor tooth germ at the
forming stage. The results demonstrate distinct expression of GDFs
in both the dental follicle and the odontoblast layer. While
"GDF5" and "GDF6" and "GDF7" mRNAs were expressed in both the
dental follicle and the odontoblast layer, GDF7 mRNA expression was
detected only in the dental follicle. These results indicate that
GDFs expressed in the bovine tooth germ include the dental
follicle, may be potent regulatory molecules in the development of
the dental attachment apparatus.

L1 ANSWER 4 OF 28 MEDLINE
AU Kim D S; Korting H C; Schafer-Korting M
TI Effects of growth factors on the proliferation of human
keratinocytes and fibroblasts in vitro.
SO PHARMAZIE, (1998 Jan) 53 (1) 51-7.
Journal code: 9YB. ISSN: 0031-7144.
AB "Growth" "GDF5" "GDF6" "GDF7" "GDF8" "GDF9" "GDF10" "GDF11" "GDF12" "GDF13" "GDF14" "GDF15" "GDF16" "GDF17" "GDF18" "GDF19" "GDF20" "GDF21" "GDF22" "GDF23" "GDF24" "GDF25" "GDF26" "GDF27" "GDF28" "GDF29" "GDF30" "GDF31" "GDF32" "GDF33" "GDF34" "GDF35" "GDF36" "GDF37" "GDF38" "GDF39" "GDF40" "GDF41" "GDF42" "GDF43" "GDF44" "GDF45" "GDF46" "GDF47" "GDF48" "GDF49" "GDF50" "GDF51" "GDF52" "GDF53" "GDF54" "GDF55" "GDF56" "GDF57" "GDF58" "GDF59" "GDF60" "GDF61" "GDF62" "GDF63" "GDF64" "GDF65" "GDF66" "GDF67" "GDF68" "GDF69" "GDF70" "GDF71" "GDF72" "GDF73" "GDF74" "GDF75" "GDF76" "GDF77" "GDF78" "GDF79" "GDF80" "GDF81" "GDF82" "GDF83" "GDF84" "GDF85" "GDF86" "GDF87" "GDF88" "GDF89" "GDF90" "GDF91" "GDF92" "GDF93" "GDF94" "GDF95" "GDF96" "GDF97" "GDF98" "GDF99" "GDF100" "GDF101" "GDF102" "GDF103" "GDF104" "GDF105" "GDF106" "GDF107" "GDF108" "GDF109" "GDF110" "GDF111" "GDF112" "GDF113" "GDF114" "GDF115" "GDF116" "GDF117" "GDF118" "GDF119" "GDF120" "GDF121" "GDF122" "GDF123" "GDF124" "GDF125" "GDF126" "GDF127" "GDF128" "GDF129" "GDF130" "GDF131" "GDF132" "GDF133" "GDF134" "GDF135" "GDF136" "GDF137" "GDF138" "GDF139" "GDF140" "GDF141" "GDF142" "GDF143" "GDF144" "GDF145" "GDF146" "GDF147" "GDF148" "GDF149" "GDF150" "GDF151" "GDF152" "GDF153" "GDF154" "GDF155" "GDF156" "GDF157" "GDF158" "GDF159" "GDF160" "GDF161" "GDF162" "GDF163" "GDF164" "GDF165" "GDF166" "GDF167" "GDF168" "GDF169" "GDF170" "GDF171" "GDF172" "GDF173" "GDF174" "GDF175" "GDF176" "GDF177" "GDF178" "GDF179" "GDF180" "GDF181" "GDF182" "GDF183" "GDF184" "GDF185" "GDF186" "GDF187" "GDF188" "GDF189" "GDF190" "GDF191" "GDF192" "GDF193" "GDF194" "GDF195" "GDF196" "GDF197" "GDF198" "GDF199" "GDF200" "GDF201" "GDF202" "GDF203" "GDF204" "GDF205" "GDF206" "GDF207" "GDF208" "GDF209" "GDF210" "GDF211" "GDF212" "GDF213" "GDF214" "GDF215" "GDF216" "GDF217" "GDF218" "GDF219" "GDF220" "GDF221" "GDF222" "GDF223" "GDF224" "GDF225" "GDF226" "GDF227" "GDF228" "GDF229" "GDF230" "GDF231" "GDF232" "GDF233" "GDF234" "GDF235" "GDF236" "GDF237" "GDF238" "GDF239" "GDF240" "GDF241" "GDF242" "GDF243" "GDF244" "GDF245" "GDF246" "GDF247" "GDF248" "GDF249" "GDF250" "GDF251" "GDF252" "GDF253" "GDF254" "GDF255" "GDF256" "GDF257" "GDF258" "GDF259" "GDF260" "GDF261" "GDF262" "GDF263" "GDF264" "GDF265" "GDF266" "GDF267" "GDF268" "GDF269" "GDF270" "GDF271" "GDF272" "GDF273" "GDF274" "GDF275" "GDF276" "GDF277" "GDF278" "GDF279" "GDF280" "GDF281" "GDF282" "GDF283" "GDF284" "GDF285" "GDF286" "GDF287" "GDF288" "GDF289" "GDF290" "GDF291" "GDF292" "GDF293" "GDF294" "GDF295" "GDF296" "GDF297" "GDF298" "GDF299" "GDF300" "GDF301" "GDF302" "GDF303" "GDF304" "GDF305" "GDF306" "GDF307" "GDF308" "GDF309" "GDF310" "GDF311" "GDF312" "GDF313" "GDF314" "GDF315" "GDF316" "GDF317" "GDF318" "GDF319" "GDF320" "GDF321" "GDF322" "GDF323" "GDF324" "GDF325" "GDF326" "GDF327" "GDF328" "GDF329" "GDF330" "GDF331" "GDF332" "GDF333" "GDF334" "GDF335" "GDF336" "GDF337" "GDF338" "GDF339" "GDF340" "GDF341" "GDF342" "GDF343" "GDF344" "GDF345" "GDF346" "GDF347" "GDF348" "GDF349" "GDF350" "GDF351" "GDF352" "GDF353" "GDF354" "GDF355" "GDF356" "GDF357" "GDF358" "GDF359" "GDF360" "GDF361" "GDF362" "GDF363" "GDF364" "GDF365" "GDF366" "GDF367" "GDF368" "GDF369" "GDF370" "GDF371" "GDF372" "GDF373" "GDF374" "GDF375" "GDF376" "GDF377" "GDF378" "GDF379" "GDF380" "GDF381" "GDF382" "GDF383" "GDF384" "GDF385" "GDF386" "GDF387" "GDF388" "GDF389" "GDF390" "GDF391" "GDF392" "GDF393" "GDF394" "GDF395" "GDF396" "GDF397" "GDF398" "GDF399" "GDF400" "GDF401" "GDF402" "GDF403" "GDF404" "GDF405" "GDF406" "GDF407" "GDF408" "GDF409" "GDF410" "GDF411" "GDF412" "GDF413" "GDF414" "GDF415" "GDF416" "GDF417" "GDF418" "GDF419" "GDF420" "GDF421" "GDF422" "GDF423" "GDF424" "GDF425" "GDF426" "GDF427" "GDF428" "GDF429" "GDF430" "GDF431" "GDF432" "GDF433" "GDF434" "GDF435" "GDF436" "GDF437" "GDF438" "GDF439" "GDF440" "GDF441" "GDF442" "GDF443" "GDF444" "GDF445" "GDF446" "GDF447" "GDF448" "GDF449" "GDF450" "GDF451" "GDF452" "GDF453" "GDF454" "GDF455" "GDF456" "GDF457" "GDF458" "GDF459" "GDF460" "GDF461" "GDF462" "GDF463" "GDF464" "GDF465" "GDF466" "GDF467" "GDF468" "GDF469" "GDF470" "GDF471" "GDF472" "GDF473" "GDF474" "GDF475" "GDF476" "GDF477" "GDF478" "GDF479" "GDF480" "GDF481" "GDF482" "GDF483" "GDF484" "GDF485" "GDF486" "GDF487" "GDF488" "GDF489" "GDF490" "GDF491" "GDF492" "GDF493" "GDF494" "GDF495" "GDF496" "GDF497" "GDF498" "GDF499" "GDF500" "GDF501" "GDF502" "GDF503" "GDF504" "GDF505" "GDF506" "GDF507" "GDF508" "GDF509" "GDF510" "GDF511" "GDF512" "GDF513" "GDF514" "GDF515" "GDF516" "GDF517" "GDF518" "GDF519" "GDF520" "GDF521" "GDF522" "GDF523" "GDF524" "GDF525" "GDF526" "GDF527" "GDF528" "GDF529" "GDF530" "GDF531" "GDF532" "GDF533" "GDF534" "GDF535" "GDF536" "GDF537" "GDF538" "GDF539" "GDF540" "GDF541" "GDF542" "GDF543" "GDF544" "GDF545" "GDF546" "GDF547" "GDF548" "GDF549" "GDF550" "GDF551" "GDF552" "GDF553" "GDF554" "GDF555" "GDF556" "GDF557" "GDF558" "GDF559" "GDF560" "GDF561" "GDF562" "GDF563" "GDF564" "GDF565" "GDF566" "GDF567" "GDF568" "GDF569" "GDF570" "GDF571" "GDF572" "GDF573" "GDF574" "GDF575" "GDF576" "GDF577" "GDF578" "GDF579" "GDF580" "GDF581" "GDF582" "GDF583" "GDF584" "GDF585" "GDF586" "GDF587" "GDF588" "GDF589" "GDF590" "GDF591" "GDF592" "GDF593" "GDF594" "GDF595" "GDF596" "GDF597" "GDF598" "GDF599" "GDF600" "GDF601" "GDF602" "GDF603" "GDF604" "GDF605" "GDF606" "GDF607" "GDF608" "GDF609" "GDF610" "GDF611" "GDF612" "GDF613" "GDF614" "GDF615" "GDF616" "GDF617" "GDF618" "GDF619" "GDF620" "GDF621" "GDF622" "GDF623" "GDF624" "GDF625" "GDF626" "GDF627" "GDF628" "GDF629" "GDF630" "GDF631" "GDF632" "GDF633" "GDF634" "GDF635" "GDF636" "GDF637" "GDF638" "GDF639" "GDF640" "GDF641" "GDF642" "GDF643" "GDF644" "GDF645" "GDF646" "GDF647" "GDF648" "GDF649" "GDF650" "GDF651" "GDF652" "GDF653" "GDF654" "GDF655" "GDF656" "GDF657" "GDF658" "GDF659" "GDF660" "GDF661" "GDF662" "GDF663" "GDF664" "GDF665" "GDF666" "GDF667" "GDF668" "GDF669" "GDF670" "GDF671" "GDF672" "GDF673" "GDF674" "GDF675" "GDF676" "GDF677" "GDF678" "GDF679" "GDF680" "GDF681" "GDF682" "GDF683" "GDF684" "GDF685" "GDF686" "GDF687" "GDF688" "GDF689" "GDF690" "GDF691" "GDF692" "GDF693" "GDF694" "GDF695" "GDF696" "GDF697" "GDF698" "GDF699" "GDF700" "GDF701" "GDF702" "GDF703" "GDF704" "GDF705" "GDF706" "GDF707" "GDF708" "GDF709" "GDF710" "GDF711" "GDF712" "GDF713" "GDF714" "GDF715" "GDF716" "GDF717" "GDF718" "GDF719" "GDF720" "GDF721" "GDF722" "GDF723" "GDF724" "GDF725" "GDF726" "GDF727" "GDF728" "GDF729" "GDF730" "GDF731" "GDF732" "GDF733" "GDF734" "GDF735" "GDF736" "GDF737" "GDF738" "GDF739" "GDF740" "GDF741" "GDF742" "GDF743" "GDF744" "GDF745" "GDF746" "GDF747" "GDF748" "GDF749" "GDF750" "GDF751" "GDF752" "GDF753" "GDF754" "GDF755" "GDF756" "GDF757" "GDF758" "GDF759" "GDF760" "GDF761" "GDF762" "GDF763" "GDF764" "GDF765" "GDF766" "GDF767" "GDF768" "GDF769" "GDF770" "GDF771" "GDF772" "GDF773" "GDF774" "GDF775" "GDF776" "GDF777" "GDF778" "GDF779" "GDF780" "GDF781" "GDF782" "GDF783" "GDF784" "GDF785" "GDF786" "GDF787" "GDF788" "GDF789" "GDF790" "GDF791" "GDF792" "GDF793" "GDF794" "GDF795" "GDF796" "GDF797" "GDF798" "GDF799" "GDF800" "GDF801" "GDF802" "GDF803" "GDF804" "GDF805" "GDF806" "GDF807" "GDF808" "GDF809" "GDF810" "GDF811" "GDF812" "GDF813" "GDF814" "GDF815" "GDF816" "GDF817" "GDF818" "GDF819" "GDF820" "GDF821" "GDF822" "GDF823" "GDF824" "GDF825" "GDF826" "GDF827" "GDF828" "GDF829" "GDF830" "GDF831" "GDF832" "GDF833" "GDF834" "GDF835" "GDF836" "GDF837" "GDF838" "GDF839" "GDF840" "GDF841" "GDF842" "GDF843" "GDF844" "GDF845" "GDF846" "GDF847" "GDF848" "GDF849" "GDF850" "GDF851" "GDF852" "GDF853" "GDF854" "GDF855" "GDF856" "GDF857" "GDF858" "GDF859" "GDF860" "GDF861" "GDF862" "GDF863" "GDF864" "GDF865" "GDF866" "GDF867" "GDF868" "GDF869" "GDF870" "GDF871" "GDF872" "GDF873" "GDF874" "GDF875" "GDF876" "GDF877" "GDF878" "GDF879" "GDF880" "GDF881" "GDF882" "GDF883" "GDF884" "GDF885" "GDF886" "GDF887" "GDF888" "GDF889" "GDF890" "GDF891" "GDF892" "GDF893" "GDF894" "GDF895" "GDF896" "GDF897" "GDF898" "GDF899" "GDF900" "GDF901" "GDF902" "GDF903" "GDF904" "GDF905" "GDF906" "GDF907" "GDF908" "GDF909" "GDF910" "GDF911" "GDF912" "GDF913" "GDF914" "GDF915" "GDF916" "GDF917" "GDF918" "GDF919" "GDF920" "GDF921" "GDF922" "GDF923" "GDF924" "GDF925" "GDF926" "GDF927" "GDF928" "GDF929" "GDF930" "GDF931" "GDF932" "GDF933" "GDF934" "GDF935" "GDF936" "GDF937" "GDF938" "GDF939" "GDF940" "GDF941" "GDF942" "GDF943" "GDF944" "GDF945" "GDF946" "GDF947" "GDF948" "GDF949" "GDF950" "GDF951" "GDF952" "GDF953" "GDF954" "GDF955" "GDF956" "GDF957" "GDF958" "GDF959" "GDF960" "GDF961" "GDF962" "GDF963" "GDF964" "GDF965" "GDF966" "GDF967" "GDF968" "GDF969" "GDF970" "GDF971" "GDF972" "GDF973" "GDF974" "GDF975" "GDF976" "GDF977" "GDF978" "GDF979" "GDF980" "GDF981" "GDF982" "GDF983" "GDF984" "GDF985" "GDF986" "GDF987" "GDF988" "GDF989" "GDF990" "GDF991" "GDF992" "GDF993" "GDF994" "GDF995" "GDF996" "GDF997" "GDF998" "GDF999" "GDF1000" "GDF1001" "GDF1002" "GDF1003" "GDF1004" "GDF1005" "GDF1006" "GDF1007" "GDF1008" "GDF1009" "GDF1010" "GDF1011" "GDF1012" "GDF1013" "GDF1014" "GDF1015" "GDF1016" "GDF1017" "GDF1018" "GDF1019" "GDF1020" "GDF1021" "GDF1022" "GDF1023" "GDF1024" "GDF1025" "GDF1026" "GDF1027" "GDF1028" "GDF1029" "GDF1030" "GDF1031" "GDF1032" "GDF1033" "GDF1034" "GDF1035" "GDF1036" "GDF1037" "GDF1038" "GDF1039" "GDF1040" "GDF1041" "GDF1042" "GDF1043" "GDF1044" "GDF1045" "GDF1046" "GDF1047" "GDF1048" "GDF1049" "GDF1050" "GDF1051" "GDF1052" "GDF1053" "GDF1054" "GDF1055" "GDF1056" "GDF1057" "GDF1058" "GDF1059" "GDF1060" "GDF1061" "GDF1062" "GDF1063" "GDF1064" "GDF1065" "GDF1066" "GDF1067" "GDF1068" "GDF1069" "GDF1070" "GDF1071" "GDF1072" "GDF1073" "GDF1074" "GDF1075" "GDF1076" "GDF1077" "GDF1078" "GDF1079" "GDF1080" "GDF1081" "GDF1082" "GDF1083" "GDF1084" "GDF1085" "GDF1086" "GDF1087" "GDF1088" "GDF1089" "GDF1090" "GDF1091" "GDF1092" "GDF1093" "GDF1094" "GDF1095" "GDF1096" "GDF1097" "GDF1098" "GDF1099" "GDF1100" "GDF1101" "GDF1102" "GDF1103" "GDF1104" "GDF1105" "GDF1106" "GDF1107" "GDF1108" "GDF1109" "GDF1110" "GDF1111" "GDF1112" "GDF1113" "GDF1114" "GDF1115" "GDF1116" "GDF1117" "GDF1118" "GDF1119" "GDF1120" "GDF1121" "GDF1122" "GDF1123" "GDF1124" "GDF1125" "GDF1126" "GDF1127" "GDF1128" "GDF1129" "GDF1130" "GDF1131" "GDF1132" "GDF1133" "GDF1134" "GDF1135" "GDF1136" "GDF1137" "GDF1138" "GDF1139" "GDF1140" "GDF1141" "GDF1142" "GDF1143" "GDF1144" "GDF1145" "GDF1146" "GDF1147" "GDF1148" "GDF1149" "GDF1150" "GDF1151" "GDF1152" "GDF1153" "GDF1154" "GDF1155" "GDF1156" "GDF1157" "GDF1158" "GDF1159" "GDF1160" "GDF1161" "GDF1162" "GDF1163" "GDF1164" "GDF1165" "GDF1166" "GDF1167" "GDF1168" "GDF1169" "GDF1170" "GDF1171" "GDF1172" "GDF1173" "GDF1174" "GDF1175" "GDF1176" "GDF1177" "GDF1178" "GDF1179" "GDF1180" "GDF1181" "GDF1182" "GDF1183" "GDF1184" "GDF1185" "GDF1186" "GDF1187" "GDF1188" "GDF1189" "GDF1190" "GDF1191" "GDF1192" "GDF1193" "GDF1194" "GDF1195" "GDF1196" "GDF1197" "GDF1198" "GDF1199" "GDF1200" "GDF1201" "GDF1202" "GDF1203" "GDF1204" "GDF1205" "GDF1206" "GDF1207" "GDF1208" "GDF1209" "GDF1210" "GDF1211" "GDF1212" "GDF1213" "GDF1214" "GDF1215" "GDF1216" "GDF1217" "GDF1218" "GDF1219" "GDF1220" "GDF1221" "GDF1222" "GDF1223" "GDF1224" "GDF1225" "GDF1226" "GDF1227" "GDF1228" "GDF1229" "GDF1230" "GDF1231" "GDF1232" "GDF1233" "GDF1234" "GDF1235" "GDF1236" "GDF1237" "GDF1238" "GDF1239" "GDF1240" "GDF1241" "GDF1242" "GDF1243" "GDF1244" "GDF1245" "GDF1246" "GDF1247" "GDF1248" "GDF1249" "GDF1250" "GDF1251" "GDF1252" "GDF1253" "GDF1254" "GDF1255" "GDF1256" "GDF1257" "GDF1258" "GDF1259" "GDF1260" "GDF1261" "GDF1262" "GDF1263" "GDF1264" "GDF1265" "GDF1266" "GDF1267" "GDF1268" "GDF126

II and IX and for the core protein of cartilage proteoglycan are up-regulated. Late in condensation and increasingly thereafter, the

resembles transforming growth factor (TGF)-beta in terms of its biological activity. The assay used to assess the activity of TGF-beta is based on cells transfected with a plasminogen activator

inhibitor-1 promoter-luciferase construct. The assay is highly specific in detecting TGF-beta 1, -beta 2, and -beta 3 but does not detect several cytokines and growth factors, such as fibroblast growth factor-2, transforming growth factor-alpha, platelet-derived growth factor-AB, insulin-like growth factor-1, or neurotrophin-3 or -4. Moreover, we show that this assay does not detect a wide range of TGF-beta superfamily members (active A, bone morphogenetic protein-2, -4, -6, and -7), growth*** / ***differentiation*** factor***. Chromaffin granules contain approximately 1 ng of TGF-beta/10 mg of protein. The biological activity elicited by the chromaffin granule component can be neutralized by using an antibody against TGF-beta 1. TGF-beta 3 is releasable from cultured chromaffin cells stimulated with the cholinergic agonist carbachol (10(-5) M). These data suggest that TGF-beta is stored in chromaffin granules and can be released by exocytosis.

L1 ANSWER 25 OF 28 MEDLINE
AU Reddi A H; Takita H
TI Initiation of bone formation cascade by bone morphogenetic proteins.
SO TAMPARAKUSHITSU KAKUSAN KOSO, PROTEIN, NUCLEIC ACID, ENZYME, (1995 Apr) 40 (5) 467-74. Ref: 54
Journal code: Q7D. ISSN: 0039-9450.

L1 ANSWER 26 OF 28 MEDLINE
AU Hotten G; Neidhardt H; Jacobowsky B; Pohl J
TI Cloning and expression of recombinant human ***growth*** / ***differentiation*** factor***
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1994 Oct 28) 204 (2) 646-52
Journal code: 8Y8. ISSN: 0006-291X.

AB The complete amino acid sequence of human ***growth*** / ***differentiation*** factor*** (hugdf5), a new member of the TGF-beta superfamily, has been determined through initial degenerate PCR and subsequent cloning and nucleotide sequencing of genomic DNA and cDNA encoding the precursor and flanking regions. The hugdf5 gene consists of only two coding exons. The protein is highly homologous to its murine equivalent, particularly the mature part which differs only by one amino acid. Expression in HuPC using recombinant vaccinia virus revealed the expected processed dimeric mature protein. Antibodies against hugdf5 were raised in chicken.

L1 ANSWER 27 OF 28 MEDLINE
AU Storm E E; Huynh T V; Copeland N G; Jenkins N A; Kingsley D M; Lee S J
TI Limb alterations in brachypodism mice due to mutations in a new member of the TGF-beta superfamily (see comments).
SO NATURE, (1994 Apr) 368 (6472) 639-43.
Journal code: NSC. ISSN: 0028-0836.

AB The mutation brachypodism (bpi) alters the length and number of bones in the limbs of mice but spares the axial skeleton. It illustrates the importance of specific genes in controlling the morphogenesis of individual skeletal elements in the tetrapod limb. We now report the isolation of three new members of the transforming growth factor-beta (TGF-beta) superfamily (growth/differentiation factors (***GDF***), ***GDF***, 6 and 7) and show by mapping, expression patterns and sequencing that ***GDF*** and ***GDF*** are responsible for skeletal alterations in bp mice. ***GDF*** and the closely related GDF6 and GDF7 define a new subgroup of factors related to known bone/cartilage-inducing molecules, the bone morphogenetic proteins (BMPs). Studies of BMP5 mutations in short ear mice have shown that at least one other BMP gene is also required for normal limb development. The highly specific skeletal alterations in bp and short ear mice suggest that different members of the BMP family control the formation of different morphological features in the mammalian skeleton.

L1 ANSWER 28 OF 28 MEDLINE
AU McPherron A C; Lee J J
TI ***GDF*** and GDF-9: two new members of the transforming growth factor-beta superfamily containing a novel pattern of cysteines.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1993 Feb 15) 268 (5) 3444-9.
Journal code: HIV. ISSN: 0021-9258.

AB Two new mammalian members (***growth*** / ***differentiation*** factor***, ***GDF***, and GDF-9) of the transforming growth factor-beta superfamily were identified using degenerate oligonucleotides corresponding to conserved regions among known family members. By Northern analysis, ***GDF*** transcripts were detected primarily in adult bone marrow, spleen, thymus, and adipose tissue. In contrast, GDF-9 transcripts were detected only in the ovary. Based on their cDNA sequences, the predicted ***GDF*** and GDF-9 polypeptides each contain a potential signal sequence for secretion, a putative tetrabasic proteolytic processing site, and a COOH-terminal region that shows significant homology to the known members of the transforming growth factor-beta superfamily. In the COOH-terminal region, ***GDF*** and GDF-9 are most homologous to Xenopus Vg-1 (57%) and human bone morphogenetic protein 4 (34%), respectively. Unlike all previously described members of this superfamily, however, both ***GDF*** and GDF-9 lack the conserved cysteine residue that is believed to form the sole disulfide linkage between subunits in other family members. These findings raise new possibilities regarding subunit interactions among members of this superfamily.

=> log hold

COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL
FULL ESTIMATED COST 13.75 SESSION 13.90

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:18:13 ON 10 NOV 1998
Trying 9351006...Open

Welcome to STN International! Enter x:x
LOGINID:essptal812dxr
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR 7):2

***** Welcome to STN International *****

NEWS 1 Feb 2 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Oct 7 Free Connect Hour in Adis Files
NEWS 3 Nov 12 UMI Files no Longer Available on STN
NEWS 4 Nov 19 PLEASE NOTE IMPORTANT DISPLAY CHANGES IN
CAPLUS/HCAPLUS/CCAPLUS DATE CHANGE
NEWS 5 Nov 23 No-Longer Polymers List added to CHEMLIST
NEWS 6 Dec 23 Iteration and Answers Set Limits Increased in
REGISTRY/REGISTRY

NEWS EXPRESS STN Express with Discover! - New V4.1b Free to V4.1 Customers
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

***** STN Columbus *****

FILE 'HOME' ENTERED AT 10:53:07 ON 24 NOV 1998

=> file medline

COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL
FULL ESTIMATED COST 0.15 SESSION 0.15

FILE 'MEDLINE' ENTERED AT 10:53:14 ON 24 NOV 1998

FILE LAST UPDATED: 29 OCT 1998 (19981029/UP). FILE COVERS 1966 TO DATE.

THE MEDLINE FILE WAS RELOADED FEBRUARY 15, 1998, TO REFLECT THE ANNUAL MESH (MEDICAL SUBJECT HEADING) CHANGES. ENTER HELP ROAD FOR DETAILS.

THIS FILE CONTAINS CAS REGISTRY NUMBERS FOR EASY AND ACCURATE SUBSTANCE IDENTIFICATION.

=> e nobuhara m/au

E1 28 NOBUHARA K/AU
E2 8 NOBUHARA K/AU
E3 37 --> NOBUHARA M/AU
E4 1 NOBUHARA R/AU
E5 1 NOBUHARA S/AU
E6 2 NOBUHARA T/AU
E7 12 NOBUHARA W/AU
E8 2 NOBUHARA Y/AU
E9 2 NOBUHIKO M/AU
E10 1 NOBUHIKO S/AU
E11 1 NOBUHIRO M/AU
E12 1 NOBUHIRO S/AU

=> s e3

L1 37 "NOBUHARA M"/AU

=> e agric7/jt

E1 2606 AGRESSOLOGIE/JT
E2 283 AGRIC BIOL CHEM/JT
E3 0 --> AGRIC7/JT
E4 283 AGRICULTURAL AND BIOLOGICAL CHEMISTRY/JT
E5 0 AGRUP ODONTOL CAP FED B AIRES/JT
E6 7 AHME J/JT
E7 7 AHME JOURNAL/JT
E8 356 AHOT BE YISRAEL/JT
E9 356 AHOT BE YISRAEL/JT
E10 763 AICHI GAKUIN DAIGAKU SHIGAKUAI SHI/JT
E11 763 AICHI GAKUIN DAIGAKU SHIGAKUAI SHI AICHI GAKUIN JOURNALS OF DENTAL SCIENCE/JT
E12 34 AICHI GAKUIN DENT SCI/JT

=> s l1 and e4

E12 283 "AGRICULTURAL AND BIOLOGICAL CHEMISTRY"/JT
L2 0 L1 AND "AGRICULTURAL AND BIOLOGICAL CHEMISTRY"/JT

=> s e4

L3 283 "AGRICULTURAL AND BIOLOGICAL CHEMISTRY"/JT
L4 0 L1 AND L3

=> d pd 283 l3

'PD' IS NOT A VALID FORMAT FOR FILE 'MEDLINE'

The following are valid formats:
The default display format is BIB.

ABS ---- AB
ALL ---- AN, DN, TI, CM, AU, CS, NC, SO, CY, DT, LA, FS, OS, EM, EW,
AB, CT, RN, CN, NA, GEN
BIB ---- AN, DN, TI, CM, AU, CS, NC, SO, CY, DT, LA, FS, OS, EM, EW,
CBIB ---- AN, DN, TI, CM, AU, CS, NC, SO, CY, DT, LA, FS, OS, EM, EW,
DALL ---- AN, DN, TI, CM, AU, CS, NC, SO, CY, DT, LA, FS, OS, EM, EW,
AB, CT, RN, CN, NA, GEN
IABS ---- AB
IALL ---- AN, DN, TI, CM, AU, CS, NC, SO, CY, DT, LA, FS, OS, EM, EW,
AB, CT, RN, CN, NA, GEN
IBIB ---- AN, DN, TI, CM, AU, CS, NC, SO, CY, DT, LA, FS, OS, EM, EW,
IND ---- CT, RN, CN, NA, GEN
SAM ---- TI, CM, CT, RN, CN, NA, GEN
TRIAL ---- TI, CM, CT, RN, CN, NA, GEN
HIT ---- All fields containing hit terms
KWIC ---- All hit terms plus 20 words on either side
OCC ---- List of display fields containing hit terms

Hit terms will be highlighted in all displayable fields.

To display a particular field or fields, enter the display field code(s). For a list of display field codes, enter 'HELP BFIELDs' at an arrow prompt (=). Examples of formats include: 'BIB'; 'AB'; 'SO,ST'. You may specify the format fields in any order, and the information will be displayed in the same order as the format specification.

The same formats (except for HIT, KWIC, and OCC) may be used with the DISPLAY ACC command to display the record for a specified Accession Number.

ENTER DISPLAY FORMAT (BIB):end

=> d py 283 l3

L3 ANSWER 283 OF 283 MEDLINE
PY 1990

=> file caplus

COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL
FULL ESTIMATED COST 1.20 SESSION 1.35

FILE 'CAPLUS' ENTERED AT 10:55:37 ON 24 NOV 1998
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP SUBSTANCES" FOR ESTABLISHED
COPYRIGHT (C) 1998 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1967 - 24 Nov 1998 VOL 129 193 22
FILE LAST UPDATED: 24 Nov 1998 (981124/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> d his

(FILE 'HOME' ENTERED AT 10:53:07 ON 24 NOV 1998)

FILE 'MEDLINE' ENTERED AT 10:53:14 ON 24 NOV 1998

L1 37 E3
L2 0 E AGRIC7/JT
L3 283 S E4
L4 0 S L1 AND L3

FILE 'CAPLUS' ENTERED AT 10:55:37 ON 24 NOV 1998

=> s l4

3 "NOBUHARA M"/AU
0 "AGRICULTURAL AND BIOLOGICAL CHEMISTRY"/JT
0 L1 AND L3

=> e agric7/jt

E1 6 AGRIC VET CHEM/JT
E2 269 AGRIC WASTES/JT
E3 0 --> AGRIC7/JT
E4 13 AGRICULTURA HEVERLEE BELG/JT
E5 13 AGRICULTURA LISBON/JT
E6 34 AGRICULTURA LOUVAIN/JT
E7 3 AGRICULTURE LONDON/JT
E8 12 AGRICULTURE MONTREAL/JT
E9 1 AGRICULTURE PARIS/JT
E10 39 AGRO ECOSYSTEMS/JT
E11 136 AGRO FOOD IND HI TECH/JT
E12 20 AGRO SUR/JT

=> e back agric7/jt

E1 13 AGRICULTURA LISBON/JT
E2 13 AGRICULTURA HEVERLEE BELG/JT
E3 0 --> AGRIC7/JT
E4 269 AGRIC WASTES/JT
E5 6 AGRIC VET CHEM/JT
E6 2 AGRIC TROP/JT
E7 116 AGRIC TEC SANTIAGO/JT
E8 1 AGRIC TEC MEX/JT
E9 1 AGRIC SERV BULL F A O/JT
E10 4 AGRIC SCI PROG/JT
E11 70 AGRIC SCI INFL/JT
E12 130 AGRIC SCI DIG/JT

=> e

E13 16 AGRIC REV MAN WEST SER U S DEP AGRIC SCI EDUC ADM/JT
E14 383 AGRIC RES REV/JT
E15 3 AGRIC RES RESULTS SOUTH SER U S DEP AGRIC SCI EDUC ADM
E16 2 AGRIC RES RESULTS SOUTH SER U S DEP AGRIC SCI EDUC ADM
E17 4 AGRIC RES RESULTS NORTHEAST SER ARR NE U S DEP AGRIC SCI EDUC ADM/JT
E18 1 AGRIC RES RESULTS NORTHEAST SER/JT
E19 3 AGRIC RES MAN U S DEP AGRIC SCI EDUC ADM/JT
E20 137 AGRIC RES J KERALA/JT
E21 1 AGRIC RES DEV/JT
E22 37 AGRIC PAK/JT
E23 6 AGRIC MANAGE WATER QUAL PAP NATL CONF/JT
E24 1 AGRIC MANAGE PRACT EFF REDUCT RUNOFF SEDIMENT PROD/JT

=> e

E25 3 AGRIC ITAL ROME/JT
E26 114 AGRIC ITAL PISA/JT
E27 6 AGRIC INTENSIVE QUAL EAUX/JT

[illegible]

SUMMARY:
BSUM(4)
Prior . . . being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc. and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin E.sub.2.
US PAT NO: 5,319,099 [IMAGE AVAILABLE] L2: 5 of 5
DATE ISSUED: Jun. 7, 1994
TITLE: 3-benzylidene-1-carbamoyl-2-pyrrolidone compounds useful as anti-inflammatory agents
INVENTOR: Susumu Kamata, Hyogo, Japan
Takeshi Shiota, Kyoto, Japan
Nobuhiko Haga, Osaka, Japan
Toshihiko Okada, Nara, Japan
Hirokuni Jyoyama, Nara, Japan
Saichi Matsumoto, Osaka, Japan
Shionogi Seiyaku Kabushiki Kaisha, Osaka, Japan (foreign corp.)
APPL-NO: 07/862,761
DATE FILED: Jun. 24, 1992
ART-UNIT: 121
PRIM-EXMR: Floyd D. Nigel
LEGAL-REP: Wenderoth, Lind & Ponack
US PAT NO: 5,319,099 [IMAGE AVAILABLE] L2: 5 of 5
ABSTRACT:

The present invention relates to novel 3-benzylidene-1-carbamoyl-2-pyrrolidone analogues having advantage anti-inflammatory activities, which is represented by the formula: ##STR1## wherein R.sub.1 and R.sub.2 each is independently hydrogen, alkyl, alkoxy, or halogen; R.sub.3 is hydrogen or acyl; R.sub.4 is hydrogen, alkyl, hydroxy, alkoxy, cyano, or halogen; R.sub.5 and R.sub.6 each is independently hydrogen, alkyl, aryl, aralkyl, heterocyclic group, substituted or unsubstituted amino, or OR.sub.7 wherein R.sub.7 is hydrogen, alkyl, aryl, acyl, or aralkyl, or taken together with adjacent nitrogen atom may form heterocyclic group which may contain N, O, and/or S, and X and Y each is independently O, S, substituted or unsubstituted imino, or substituted or unsubstituted methylamino. In more detail, the present invention provides an anti-inflammatory agent which is useful for the treatment of chronic inflammation and has little side effect, e.g., stomach disease.

SUMMARY:
BSUM(4)
Prior . . . being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc. and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin E.sub.2.
US PAT NO: 5,683,992 [IMAGE AVAILABLE] L2: 1 of 5
SUMMARY:
BSUM(34)

Those diseases at which compounds of the present invention are directed are inflammatory diseases, pain diseases, skin diseases, respiratory organ diseases, liver diseases, infectious diseases, autoimmune diseases, ischemic organ disorders and bone metabolic diseases. For example, the present invention provides a drug having superior therapeutic and preventive activity against (chronic) articular rheumatism, multiple rheumatoid arthritis, osteoarthritis, scapular peri-arthritis, neck-shoulder-arm syndrome, intervertebral disk disorders, lumbago, tendonitis and peritendinitis, "arthroostetis", scapulohumero-periarthritis, fibrositis, muscle pain, neuralgia, gout, post-surgical and posttraumatic inflammation and swelling (anti-inflammatory agents, antirheumatics, antiarthritics, analgesics and antipyretics), or psoriasis, asthma, pulmonary sarcoidosis, viral hepatitis, human immunodeficiency viral infections, protozoan infections, ischemic heart disease, ischemic encephalopathy, ischemic hepatitis, arteriosclerosis and osteoporosis, Paget's disease, Bechterew's disease, hypercalcemia and atopic ossification (bone metabolic disease drugs).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)

Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

US PAT NO: 5,319,100 [IMAGE AVAILABLE] L2: 4 of 5
SUMMARY:
BSUM(4)
Prior anti-inflammatory agents of non-steroid type are effective to the improvement in the early stages of rheumatism and acute inflammation, however, have some defects of being no effective to progressed rheumatic diseases such as osteonecrosis, the improvement in chronic rheumatic diseases, or the treatment of "arthroostetis" etc., and of having potent activities to induce gastric ulcer caused by the inhibition of the production of prostaglandin 2.sub.2 (PG2.sub.2).

CLMS(11)

11. A "method" of making a quick-opening wrapping for packing objects, comprising the steps of:
preparing a composition by adding an embrittling agent to at least one extrudable plastics material, the concentration by weight of said embrittling agent being in the range of 15% to 25%;
monoeextruding said composition by blow extrusion with a take-off ratio within the range of 1.5 to 30 and a blow-up ratio with in the range of 1.5 to 10, whereby the film is tearable in the extrusion direction and in a direction orthogonal to the extrusion direction; and
surrounding at least in part said objects by a portion of said film, and providing tear initiator means in said portion of said film whereby it is possible to tear said wrapping in the direction that is predetermined by said initiator.

CLMS(12)

12. The "method" according to claim 1, wherein the thickness of the monoeextruded film is within the range of 20 to 150 microns.

CLMS(13)

13. The "method" according to claim 11, wherein the thickness of the monoeextruded film is within the range of 20 to 150 microns.

US PAT NO: 4,622,011 [IMAGE AVAILABLE] L5: 2 of 3
DATE ISSUED: Nov. 11, 1986
TITLE: Radicular post head comprising reversible retention and automatic positioning means
INVENTOR: Pierre Malek, 62, boulevard Gambetta, 06000 Nice, France
APPL-NO: 06/63,617
DATE FILED: Aug. 17, 1984
ART-UNIT: 333
PRIM-EXMR: John J. Wilson
LEGAL-REP: Dowell & Dowell
US PAT NO: 4,622,011 [IMAGE AVAILABLE] L5: 2 of 3

ABSTRACT:

A radicular post cooperating with a resilient dental impression for use in preparing a cap to be fixed to a tooth having a post hole shaped to receive the post, each post having a conical part for entering the post hole and having a cylindrical part aligned on the longitudinal axis of the post and extending from the tooth when the post is seated in the post hole, the cylindrical parts of the posts having retention grooves circularly disposed around them, the parts of the posts being fully symmetrical about the axis; and the impression being formed of a cured resilient compound having a molded hole fitting the cylindrical part of each post, and the impression holes having resilient rings shaped to enter and fill the grooves in associated posts, the shapes of the grooves and rings and the resilience of the impression compound being selected such that the cylindrical parts of the posts can be removed from and repositioned within the impressions without damaging the impressions and while achieving accurate positioning of the posts therein because the parts of the posts are symmetrical about their axes.

CLAIMS:

CLMS(1)

I claim:

1. The combination of a "radicular" post and a resilient dental impression for use in preparing a cap to be fixed to a tooth having a post hole shaped to receive the post, the post comprising a conical part for entering the post hole, the post having a cylindrical part which extends from the tooth when the post is seated in the post hole, the cylindrical part having retention grooves means circularly disposed around it, and the conical part and the cylindrical part and the groove means being fully symmetrical disposed about the longitudinal axis of the post; and the impression comprising a cured resilient compound having a molded hole fitting the cylindrical part of the post, and the impression having resilient rings in the molded hole shaped to enter and fill the groove means in the post, the shape of the groove means and the resilience of the impression being selected such that the cylindrical part of the post can be removed from and repositioned within the molded hole in the impression without damaging the impression and while achieving accurate positioning of the post therein because the parts of the post are symmetrical about said longitudinal axis.

CLMS(2)

2. The "method" of preparing a dental impression for making a cap to be fixed to a tooth having a post hole shaped to receive a "radicular" post, comprising the steps of:
installing and seating a post in the post hole, the post having a conical part for entering the post hole and having a cylindrical part to project from the tooth, the cylindrical part having retention grooves means circularly disposed around it, and the conical and cylindrical parts being symmetrical disposed about the longitudinal axis of the post;
molding resilient impression compound over the tooth and the projecting part of the post leaving no voids, whereby to form an impression having an internal hole fitting said cylindrical part of the post and having ring means in the internal hole fitting the groove means; and
removing the molded impression and the post from the tooth, the shape of the groove means and the resilience of the ring means within the impression being selected to provide a reversible lock whereby in the event that the post remains in the tooth during removal of the impression a post which is identical in shape can be reinserted and locked in the internal hole and will be properly positioned therein during subsequent laboratory steps because the parts of the post are symmetrical about its longitudinal axis and thus have no specific orientation in terms of angle of rotation in the impression about said axis.

US PAT NO: 3,636,632 [IMAGE AVAILABLE] L5: 3 of 3
DATE ISSUED: Jan. 25, 1972
TITLE: METHOD OF MAKING DENTAL BRIDGES, DENTAL CROWNS, AND DENTAL CORONO-RADICULAR RETAINERS
INVENTOR: Eugen Costa, Bucharest, Romania
Ioan Covaci, Bucharest, Romania
Gheorghe Surica, Bucharest, Romania
ASSIGNEE: Clinica 51 Policlinica de Stomatologie Ortopedica, Bucharest, Romania
APPL-NO: 04/815,925
DATE FILED: Apr. 14, 1969
ART-UNIT: 333
PRIM-EXMR: Robert Peshock
LEGAL-REP: Karl F. Ross
US PAT NO: 3,636,632 [IMAGE AVAILABLE] L5: 3 of 3

ABSTRACT:

A method of making a dental prosthesis, such as a dental bridge, dental crown or corono-radicular retainer wherein a negative cast of the mouth area is formed by surrounding at least part of the area with a copper ring and introducing a casting material into said ring. Thereafter, a plaster positive model is formed by introducing plaster into said cast. The model is fixed to the wall of a container and duplicated by casting a hydrocolloid material about the model and withdrawing said model from said hydrocolloid material upon setting to form a reversible hydrocolloid negative impression. An investment material is used to form a positive representation from the investment material and there is built up with a thin layer of wax on said positive representation the configuration of the prosthesis to be fashioned. Then a lost-wax casting mold is formed about the positive representation with the wax layer thereon and a molten metal is cast in the mold to produce the prosthesis.

CLAIMS:

CLMS(1)

We claim:

1. A "method" of making a dental bridge, comprising the steps of:
forming a negative cast of the mouth area adapted to receive said prosthesis with a casting material;
thereafter forming a plaster positive model of said region by introducing plaster into only a limited region of said cast corresponding to the tooth-stump area and the alveolar crest area between the two stumps, producing an extended plaster positive model from said cast from which the tooth-stump model is removable, and removing the tooth-stump model from said extended model;
casting a reversible hydrocolloid material about said model and withdrawing said model from said hydrocolloid material upon setting thereof to form a reversible hydrocolloid negative impression;
casting in said negative impression an investment material to form a positive representation from said investment material;
building up a thin layer of wax on said positive representation and shaping said layer to the configuration of the prosthesis to be fashioned; and
forming a lost-wax casting mold about the positive representation with the wax layer thereon and casting a molten metal in said mold to produce the prosthesis, said reversible hydrocolloid negative impression being formed from said tooth-stump model and said positive representation of investment material constituting a duplicate of said tooth-stump model, said tooth-stump model and the duplicate thereof of investment material forming cores corresponding to the teeth on either side of said alveolar crest and of a dimension less than that of the teeth to be formed on said prosthesis, said thin layer of wax being built on said cores to the anatomical shape of teeth by applying a wax band of predetermined thickness around said cores and a wax disk to the ends of said cores.

CLMS(2)

2. The "method" defined in claim 1 wherein said wax band has a thickness of about 0.4 mm.

CLMS(3)

3. The "method" of making a corono-"radicular" retainer comprising the steps of:
forming a negative cast of the mouth area adapted to receive said prosthesis with a casting material;
thereafter forming a plaster positive model of said region by introducing plaster into said cast;
casting a reversible hydrocolloid material about said model and withdrawing said model from said hydrocolloid material upon setting thereof to form a reversible hydrocolloid negative impression;
casting in said negative impression an investment material to form a positive representation from said investment material;
building up a thin layer of wax on said positive representation and shaping said layer to the configuration of the prosthesis to be fashioned, said layer of wax being applied to said positive representation in the form of a wax band of a predetermined thickness of about 0.4 mm; and
fixing a metallic taper dowel in said model, suspending said model in a container and casting said hydrocolloid material about said model in said container.

CLMS(4)

4. The "method" defined in claim 3 wherein said taper dowel has a threaded end and is fastened to said container by a screwthread into this end, said model being withdrawn from said dowel and said negative impression and said investment material being cast in said negative impression around said dowel.

CLMS(5)

5. A "method" of making a dental prosthesis, such as a dental bridge, dental crown or corono-"radicular" retainer, comprising the steps of:
forming a negative cast of the mouth area adapted to receive said prosthesis with casting material;
thereafter forming a plaster positive model of said region by introducing plaster into said cast;
casting a reversible hydrocolloid material about said model and withdrawing said model from said hydrocolloid material upon setting thereof to form a reversible hydrocolloid negative impression;
casting in said negative impression an investment material to form a positive representation from said investment material;
building up a thin layer of wax on said positive representation and shaping said layer to the configuration of the prosthesis to be fashioned; and
forming a lost-wax casting mold about the positive representation with the wax layer thereon and casting a molten metal in said mold to produce the prosthesis, said model being mounted on a wall of said container and the container is filled with said hydrocolloid material up to said wall and surrounds said model, said molten metal being a chromium-cobalt alloy, said investment material being cured at an elevated temperature prior to the build up of said layer of wax thereon.

=> d his

(FILE 'USPAT' ENTERED AT 11:45:02 ON 24 NOV 1998)
L1 489 S (METHOD AND (OSTEOPOROSIS OR OSTEOARTHRITIS OR ARTHROSTE
ITI
L2 5 E ARTHROSTETIS
L3 834 S (METHOD AND (RHEUMATIC? OR RHEUMATISM? OR RHEUMATOID?))/
CLM
L4 0 S (METHOD AND ((RADICULAR OR ARVEULAR) (2A) DEFECTS)) /CLM
L5 3 S (METHOD AND RADICULAR) /CLM
=> s TGFbeta# or (tgf beta#) or (TRANSFORMING GROWTH FACTOR# beta#):a bmp# or ((bone morphogen?) o
ostogenic) (w) (protein# or polypeptide#)
4 TGFbeta#
1816 TGF
175705 BETA#
1193 TGF BETA#
(TGF(W)BETA#)
29467 TRANSFORMING
143054 GROWTH
42867 FACTOR#
175705 BETA#
746 TRANSFORMING GROWTH FACTOR# BETA#
(TRANSFORMING(W)GROWTH(W)FACTOR#(W)BETA#)
L6 1421 TGFbeta# OR (TGF BETA#) OR (TRANSFORMING GROWTH FACTOR# BET
A#)
701 BMP#
32713 BONE
991 MORPHOGEN?
485 BONE MORPHOGEN?
(BONE(W)MORPHOGEN?)
713 OSTEOGENIC
79575 PROTEIN#
19436 POLYPEPTIDE#
485 ((BONE MORPHOGEN?) OR OSTEOGENIC) (W) (PROTEIN# OR POLYPEPTIDE
#)
L7 870 BMP# OR ((BONE MORPHOGEN?) OR OSTEOGENIC) (W) (PROTEIN# OR PO
LYP
EPTIDE#))
=> d his

(FILE 'USPAT' ENTERED AT 11:45:02 ON 24 NOV 1998)
L1 489 S (METHOD AND (OSTEOPOROSIS OR OSTEOARTHRITIS OR ARTHROSTE
ITI
L2 5 E ARTHROSTETIS
L3 834 S (METHOD AND (RHEUMATIC? OR RHEUMATISM? OR RHEUMATOID?))/
CLM
L4 0 S (METHOD AND ((RADICULAR OR ARVEULAR) (2A) DEFECTS)) /CLM
L5 3 S (METHOD AND RADICULAR) /CLM
L6 1421 S TGFbeta# OR (TGF BETA#) OR (TRANSFORMING GROWTH FACTOR#
BET
L7 870 S BMP# OR ((BONE MORPHOGEN?) OR OSTEOGENIC) (W) (PROTEIN# OR
PO
=> s mp52 or (mp 52)

24 MP52
29793 MP
833705 S2
347 MP 52
(MP(W)52)
L8 359 MP52 OR (MP 52)
=> s mp 52
29793 MP
833705 S2
347 MP 52
(MP(W)52)
L9
=> s 19 and (16 or 17)
L10 2 L9 AND (L6 OR L7)
=> d bib ab 1-

US PAT NO: 5,807,713 [IMAGE AVAILABLE] L10: 1 of 2
DATE ISSUED: Sep. 15, 1998
TITLE: DNA encoding growth/differentiation factor
INVENTOR: Gertrud Hocker, Bochum, Federal Republic of Germany
Heige Neidhardt, Marburg, Federal Republic of Germany
Rolf Bechtold, Heidelberg, Federal Republic of Germany
Dense Pohl, Hambrucken, Federal Republic of Germany
Biopharm Gesellschaft zur Biotechnologischen Entwicklung,
Heidelberg, Federal Republic of Germany (foreign corp.)
ASSIGNEE:
APPL-NO: 08/448,577
DATE FILED: Jun. 7, 1995
ART-UNIT: 182
PRIM-EXMR: Ulf
ASST-EXMR: Prema Mertz
LEGAL-REP: Nikola Marmelstein Murray & Oram LLP
US PAT NO: 5,807,713 [IMAGE AVAILABLE] L10: 1 of 2

ABSTRACT:
The invention concerns a protein of the "TGF"-beta family, the DNA coding therefor and a pharmaceutical composition containing such a protein.

US PAT NO: 5,659,882 [IMAGE AVAILABLE] L10: 2 of 2
DATE ISSUED: Aug. 19, 1997
TITLE: Methods of inducing formation of tendon and/or ligament tissue comprising administering "BMP"-12, "BMP"-13, and/or "BMP"-15
INVENTOR: Anthony J. Celeste, Hudson, MA

John M. Wozney, Hudson, MA
Vicki A. Rosen, Brookline, MA
Neil M. Wolfman, Dover, MA
Gerald H. Thomsen, Port Jefferson, NY
Douglas A. Melton, Lexington, MA
Genetics Institute, Inc., Cambridge, MA (U.S. corp.)
President and Fellows of Harvard College, Cambridge, MA
(U.S. corp.)
APPL-NO: 08/362,670
DATE FILED: Dec. 22, 1994
ART-UNIT: 181
PRIM-EXMR: Vasu S. Jagannathan
ASST-EXMR: Elizabeth C. Kemmerer
LEGAL-REP: Steven R. Lazar, Thomas J. Desrosier
US PAT NO: 5,650,882 [IMAGE AVAILABLE] L10: 2 of 2

ABSTRACT:
The present invention relates to methods for the induction of tendon/ligament-like tissue formation, wound healing and ligament and other tissue repair, using a composition comprising "BMP"-12, "BMP"-13 or "BMP"-52, or combinations of the above.

=> d his

(FILE 'USPAT' ENTERED AT 11:45:02 ON 24 NOV 1998)
L1 489 S (METHOD AND (OSTEOPOROSIS OR OSTEOARTHRITIS OR ARTHROSTE
ITI
L2 5 S E3
L3 834 S (METHOD AND (RHEUMATIC? OR RHEUMATISM? OR RHEUMATOID?))/
CLM
L4 0 S (METHOD AND ((RADICULAR OR ARVEUCULAR) (2A)DETECT#))/
L5 3 S (METHOD AND RADICULAR)/CLM
L6 1421 S TGFETA# OR (TGF BETA#) OR (TRANSFORMING GROWTH FACTOR#
BET
L7 870 S BMP# OR ((BONE MORPHOGEN?) OR OSTEOGENIC) (W) (PROTEIN# OR
PO
L8 359 S MP52 OR (MP 52)
L9 347 S MP 52
L10 2 S L9 AND (L6 OR L7)

=> d his

(FILE 'USPAT' ENTERED AT 11:45:02 ON 24 NOV 1998)
L1 489 S (METHOD AND (OSTEOPOROSIS OR OSTEOARTHRITIS OR ARTHROSTE
ITI
L2 5 S E3
L3 834 S (METHOD AND (RHEUMATIC? OR RHEUMATISM? OR RHEUMATOID?))/
CLM
L4 0 S (METHOD AND ((RADICULAR OR ARVEUCULAR) (2A)DETECT#))/
L5 3 S (METHOD AND RADICULAR)/CLM
L6 1421 S TGFETA# OR (TGF BETA#) OR (TRANSFORMING GROWTH FACTOR#
BET
L7 870 S BMP# OR ((BONE MORPHOGEN?) OR OSTEOGENIC) (W) (PROTEIN# OR
PO
L8 359 S MP52 OR (MP 52)
L9 347 S MP 52
L10 2 S L9 AND (L6 OR L7)

=> save all a08945459/1

L# LIST 'L1-L10' HAS BEEN SAVED AS 'A08945459/L'

=> d his: log y

(FILE 'USPAT' ENTERED AT 11:45:02 ON 24 NOV 1998)
L1 489 S (METHOD AND (OSTEOPOROSIS OR OSTEOARTHRITIS OR ARTHROSTE
ITI
L2 5 S E3
L3 834 S (METHOD AND (RHEUMATIC? OR RHEUMATISM? OR RHEUMATOID?))/
CLM
L4 0 S (METHOD AND ((RADICULAR OR ARVEUCULAR) (2A)DETECT#))/
L5 3 S (METHOD AND RADICULAR)/CLM
L6 1421 S TGFETA# OR (TGF BETA#) OR (TRANSFORMING GROWTH FACTOR#
BET
L7 870 S BMP# OR ((BONE MORPHOGEN?) OR OSTEOGENIC) (W) (PROTEIN# OR
PO
L8 359 S MP52 OR (MP 52)
L9 347 S MP 52
L10 2 S L9 AND (L6 OR L7)
SAVE ALL A08945459/L

U.S. Patent & Trademark Office LOGOFF AT 12:57:46 ON 24 NOV 1998
FILE 'USPAT' ENTERED AT 16:14:00 ON 24 NOV 1998

***** W E L C O M E T O T H E *****
***** U . S . P A T E N T I L E *****

=> s aminopetidase# or (amino petidase#)

4 AMINOPETIDASE#
159099 AMINO
2 PETIDASE#
0 AMINO PETIDASE#
(AMINO (W) PETIDASE#)

L1 4 AMINOPETIDASE# OR (AMINO PETIDASE#)

=> s (di(w)l4) or diaminopetidase#

'L4' NOT FOUND

=> s (di(w)l1) or diaminopetidase#

148213 DI
0 DI(W)L1
0 DIAMINOPETIDASE#
0 (DI(W)L1) OR DIAMINOPETIDASE#

=> d bib ab kwic 1- 11

US PAT NO: 5,350,692 [IMAGE AVAILABLE] L1: 1 of 4
DATE ISSUED: Sep. 27, 1994
TITLE: Microorganisms useful for hydrogen gas production
INVENTOR: Fumiaki Taguchi, Kanagawa, Japan
Masayoshi Morimoto, Tokyo, Japan
Takeshi Kyoya, Kanagawa, Japan
Mikio Takano, Tokyo, Japan
Kajima Corporation, Tokyo, Japan (foreign corp.)
ASSIGNEE:
APPL-NO: 08/091,684
DATE FILED: Jul. 15, 1993
ART-UNIT: 188
PRIM-EXMR: Douglas W. Robinson
ASST-EXMR: Jeffrey J. Sevigny
LEGAL-REP: Browdy and Neimark
US PAT NO: 5,350,692 [IMAGE AVAILABLE] L1: 1 of 4

ABSTRACT:
The present invention relates to a process for preparing hydrogen gas on an industrial scale by culturing the microorganism Clostridium beijerinckii Farm BP-3592 or the anaerobic asporogenic bacterium strain Farm BP-3593 in a medium containing glucose and/or a polysaccharide containing a glucose unit.

SUMMARY:

BSUM(36)

N-acetylglucosaminidase -
alkaline phosphatase -
leucylglycine aminopeptidase -
glycine aminopeptidase -
proline "aminopetidase" -
phenylalanine aminopeptidase -
arginine aminopeptidase -
serine aminopeptidase -
pyrrolidone aminopeptidase. . .

US PAT NO: 5,350,685 [IMAGE AVAILABLE] L1: 2 of 4
DATE ISSUED: Sep. 27, 1994
TITLE: Process for preparing hydrogen gas using microorganism
INVENTOR: Fumiaki Taguchi, Kanagawa, Japan
Masayoshi Morimoto, Tokyo, Japan

Takeshi Kyoya, Kanagawa, Japan
Mikio Takano, Tokyo, Japan
Kajima Corporation, Tokyo, Japan (foreign corp.)
APPL-NO: 08/091,670
DATE FILED: Jul. 20, 1993
ART-UNIT: 188
PRIM-EXMR: Douglas W. Robinson
ASST-EXMR: Jeffrey J. Sevigny
LEGAL-REP: Browdy and Neimark
US PAT NO: 5,350,685 [IMAGE AVAILABLE] L1: 2 of 4

ABSTRACT:
The present invention relates to a process for preparing hydrogen gas on an industrial scale by culturing the microorganism Clostridium beijerinckii Farm BP-3592 or the anaerobic asporogenic bacterium strain Farm BP-3593 in a medium containing glucose and/or a polysaccharide containing a glucose unit.

DETD(15)

N-acetylglucosaminidase -
alkaline phosphatase -
leucylglycine aminopeptidase -
glycine aminopeptidase -
proline "aminopetidase" -
phenylalanine aminopeptidase -
arginine aminopeptidase -
serine aminopeptidase -
pyrrolidone aminopeptidase. . .

US PAT NO: 5,116,744 [IMAGE AVAILABLE] L1: 3 of 4
DATE ISSUED: May 26, 1992
TITLE: Microbial cyanide converting enzymes, their production and use
INVENTOR: Kjeld Ingvorsen, Vaerloese, Denmark
Sven E. Godtfredsen, Vaerloese, Denmark
Birgitte Hoyer-Pedersen, Vaerloese, Denmark
Novo Industri A/S, Bagsvaerd, Denmark (foreign corp.)
ASSIGNEE:
APPL-NO: 07/595,684
DATE FILED: Sep. 19, 1990
ART-UNIT: 184
PRIM-EXMR: Charles L. Patterson
LEGAL-REP: Feldman & Wolfe
US PAT NO: 5,116,744 [IMAGE AVAILABLE] L1: 3 of 4

ABSTRACT:
A novel cyanide converting enzyme, a "cyanidase" is described. The enzyme is extremely efficient in reducing substantial concentrations of cyanide to very low levels in a broad pH, and temperature range, and in the presence of organics and metal ions.

SUMMARY:

BSUM(48)

.mu.m 0.8-2.5 0.6-2.5
Motility + +
Flagellation peritrichous peritrichous
Gram reaction - +
Lysis by 3% HCl + +
"Aminopetidase" (Cerny) +
Spores + +
Oxidase + +
Catalase + +
Growth anaerobic
37/41.degree. C. +/- . .

US PAT NO: PP 7,024 [IMAGE AVAILABLE] L1: 4 of 4
DATE ISSUED: Sep. 2, 1989
TITLE: Strawberry plant 'Commander'
INVENTOR: Harold A. Johnson, Jr., Watsonville, CA
David W. Small, Ventura, CA
Amado O. Amorao, Watsonville, CA
Joseph I. Espejo, Jr., Watsonville, CA
Driscoll Strawberry Associates, Inc., Watsonville, CA
(U.S. corp.)
APPL-NO: 07/220,851
DATE FILED: Jul. 18, 1988
ART-UNIT: 184
PRIM-EXMR: Robert E. Bagwill
LEGAL-REP: Townsend and Townsend
US PAT NO: PP 7,024 [IMAGE AVAILABLE] L1: 4 of 4

ABSTRACT:
A new and distinct spring bearing variety of strawberry plant, characterized by its ability to produce a strong plant, but which remains in production consistently from April to October, if given adequate chilling before and after being planted. The variety is particularly distinguished by its consistently good flavor, large calyx, large smooth and attractive fruit, and heavy total production. Its long shelf life also becomes a distinctive character. The dark and glossy leaflets are characters that help identify this new variety.

DETD(5)

DETD(11)
Leucyl "aminopetidase" (LAP): 2 Banded-B3*

=> s (cathepsin c)

902 CATHEPSIN
1298559 C
98 (CATHEPSIN C)
(CATHEPSIN(W)C)

=> s (initiator or (amino terminal)) (a)methionine

39304 INITIATOR
159099 AMINO
376746 TERMINAL
4916 AMINO TERMINAL
(AMINO (W) TERMINAL)
13503 METHIONINE
611 (INITIATOR OR (AMINO TERMINAL)) (A)METHIONINE

=> s l3(p)14

L5 0 L3(P)L4

=> s (initiator or ((amino or n) (w)termin?)) (2a) (methionine or met)

39304 INITIATOR
159099 AMINO
693167 N
754063 TERMIN?
13503 METHIONINE
87697 MET
L6 1529 (INITIATOR OR ((AMINO OR N) (W)TERMIN?)) (2A) (METHIONINE OR M ET)

=> s l3 and l6

L7 14 L3 AND L6

=> s l3(p)16

L8 3 L3(P)L6

=> d bib ab kwic 1-

US PAT NO: 5,620,685 [IMAGE AVAILABLE] L8: 1 of 3
DATE ISSUED: Apr. 15, 1997
TITLE: Protecting agents from radiation hazards
INVENTOR: Nobuaki Nishi, Maebashi, Japan
Haruhiko Tsumura, Tano-gun, Japan
Hideo Inoue, Takasaki, Japan
Kicin Brewery Company, Limited, Tokyo, Japan (foreign corp.)
APPL-NO: 08/357,125
DATE FILED: Dec. 16, 1994
ART-UNIT: 181
PRIM-EXMR: Howard E. Schain
LEGAL-REP: Foley & Lardner
US PAT NO: 5,620,685 [IMAGE AVAILABLE] L8: 1 of 3

ABSTRACT:
The present invention relates to pharmaceutical composition comprising SCF protein, IL-3 protein, GM-CSF protein and IL-6 protein. More

specifically, the present invention relates to a protecting agent from radiation hazards, comprising SCF protein, IL-3 protein, GM-CSF protein and IL-6 protein.
The present invention also relates to a method for the treatment of patients with radiation hazards, which comprises administering the pharmaceutical composition according to a therapeutically effective amount to the patients.
The present invention has an excellent effect of enabling 100% survival of animals exposed to a lethal dose of radiations, which could not be attained by prior art pharmaceuticals.

DETD(39)

(1) . . . a characteristic that a human IL-6 protein starting with Ala at the N-terminus can be produced by cleaving off the "N"***terminal***Met*** Lys sequence of the IL-6 protein with the protease "cathepsin"***C***. Such a treatment, however, was not carried out.

US PAT NO: 5,304,473 [IMAGE AVAILABLE] L8: 2 of 3
DATE ISSUED: Apr. 19, 1994
TITLE: A-C-B proinsulin, method of manufacturing and using same, and intermediates in insulin production
INVENTOR: Rama M. Belagaje, Indianapolis, IN
Richard D. DiMarchi, Carmel, IN
William F. Heath, Jr., Indianapolis, IN
Harlan B. Long, Carmel, IN
Eli Lilly and Company, Indianapolis, IN (U.S. corp.)
ASSIGNEE:
APPL-NO: 07/715,183
DATE FILED: Jun. 11, 1991
ART-UNIT: 186
PRIM-EXMR: David L. Lacey
ASST-EXMR: Donald E. Adams
LEGAL-REP: Richard B. Murphy, Leroy Whitaker
US PAT NO: 5,304,473 [IMAGE AVAILABLE] L8: 2 of 3

ABSTRACT:
The instant invention provides novel molecules derived from the components of proinsulin using recombinant DNA technology. The invention provides molecules of the formula A-C-B wherein A is the A-chain of an insulin species, B is the B-chain of an insulin species and C is a connecting peptide. These molecules possess insulin-like activity and are useful for the treatment of diabetes mellitus, particularly non-insulin dependent diabetes mellitus. These molecules are also useful for the production of insulin and constitute a novel pathway for the recombinant production of insulin species. The invention provides a method of making insulin proceeding through the compounds of the invention as intermediates; invention further provides recombinant DNA compounds which encode the compounds of the invention.

DETD(159)

This . . . in significant savings in the recombinant production of commercially significant quantities of insulin by eliminating the requirement of removing the "N"***terminal*** "methionine" of the recombinant molecule with "cathepsin"***C***, or other methods, relying instead on the intrinsic action of the methionyl amino peptidase of the E. coli host cell to remove the "N"***terminal*** "methionine".

US PAT NO: 5,264,209 [IMAGE AVAILABLE] L8: 3 of 3
DATE ISSUED: Nov. 23, 1993
TITLE: Modified HIL-6
INVENTOR: Toshihumi Miyakawa, Gunma, Japan
Toshihiko Kadoya, Takasaki, Japan
Makoto Kakitani, Maebashi, Japan
Hideo Inoue, Takasaki, Japan
Kirin-Amgen, Inc., Thousand Oaks, CA (U.S. corp.)
ASSIGNEE:
APPL-NO: 07/632,070
DATE FILED: Dec. 21, 1990
ART-UNIT: 184
PRIM-EXMR: Robert A. Wax
ASST-EXMR: Keith C. Furman
LEGAL-REP: Marshall, O'Toole, Gerstein, Murray & Borun
US PAT NO: 5,264,209 [IMAGE AVAILABLE] L8: 3 of 3

ABSTRACT:
Provided are PEGylated "interleukin-6" derivatives (PEG IL-6) having an extended plasma half-life, as well as enhanced in-vivo IL-6 biological activities.
Methods for producing the modified glycosylated and unglycosylated IL-6 protein or polypeptide, as well as, for their use in treating hematopoietic disorders and deficiencies, particularly acute thrombocytopenia, are also provided.

DETD(81)

SEQ ID NO: 3 ##STR9## This amino acid sequence has "N"***terminal*** residues of "Met" and thus can be conveniently converted to Ala-Pro-, the natural hIL-6 sequence, by cleaving off the Met-Lys using "cathepsin"***C***.

-> d detd(39)

US PAT NO: 5,620,685 [IMAGE AVAILABLE] L8: 1 of 3
DETD(39)

(1) A DNA molecule which encodes the human IL-6 amino acid sequence was chemically synthesized in accordance with the procedure of Souza et al. (JP-A-63-50036) with reference to the published amino acid sequence of human IL-6 protein (Haegeman et al. Eur. J. Biochem. vol. 159, p. 625, 1986), and incorporated into E. coli to express human IL-6 protein in the same manner as described in JP-A-4-218000. The human IL-6 protein produced by expression in the thus prepared recombinant E. coli has a characteristic that a human IL-6 protein starting with Ala at the N-terminus can be produced by cleaving off the "N"***terminal*** "Met" Lys sequence of the IL-6 protein with the protease "cathepsin"***C***. Such a treatment, however, was not carried out.

-> d detd(40)

US PAT NO: 5,620,685 [IMAGE AVAILABLE] L8: 1 of 3
DETD(40)

(2) Extraction, solubilization and refolding of human IL-6 protein were carried out in accordance with the procedure of JP-A-63-157956.

-> d detd(159) 2

US PAT NO: 5,304,473 [IMAGE AVAILABLE] L8: 2 of 3
DETD(159)

This novel pathway for the preparation of insulin is distinct from the current practice of replicating natural processes in diverse organisms. This alternate pathway to insulin results in significant savings in the recombinant production of commercially significant quantities of insulin by eliminating the requirement of removing the "N"***terminal*** "methionine" of the recombinant molecule with "cathepsin"***C***, or other methods, relying instead on the intrinsic action of the methionyl amino peptidase of the E. coli host cell to remove the "N"***terminal*** "methionine".

-> d detd(160) 2

US PAT NO: 5,304,473 [IMAGE AVAILABLE] L8: 2 of 3
DETD(160)

Since the removal of the N-terminal methionine residue of ACB-PI is dependent on the presence of MAP, the host cell chosen must intrinsically produce MAP or have been engineered to produce MAP. The MAP protease is indigenous to E. coli cells. Thus a variety of E. coli cell lines which are not deficient in the production of the MAP may be employed in the practice of the method of the instant invention. Examples of E. coli host lines useful in the practice of the instant invention include the cell lines E. coli K12 L201, L687, L693, L507, L640, L641, L695, L814 (E. coli K12). In the pre referred practice of the invention said E. coli host cell is the E. coli K12 RV308 E. coli cell line.

-> d detd(161) 2

US PAT NO: 5,304,473 [IMAGE AVAILABLE] L8: 2 of 3
DETD(161)

DETD(161)

The conversion of the single-chain ACB-PI molecule to a functional native insulin or insulin analog requires the excision of the internal C-peptide. This may be achieved by enzymatic or chemical means such as cyanogen bromide cleavage. When the native human proinsulin A-chain, B-chain and C-peptide amino acid sequences are employed in the ACB-hPI peptide's construction as exemplified herein, the amino acid sequence of the ACB-hPI peptide is: ##STR3##

-> save all a08945459/1

'A08945459/1' IN USE
REPLACE OLD DEFINITION? Y/(N)n

-> save all b08945459/1

L# LIST 'L1-L8' HAS BEEN SAVED AS 'B08945459/1'

-> d his; log y

(FILE 'USPAT' ENTERED AT 16:14:00 ON 24 NOV 1998)
L1 5 AMINOPETIDASES OR (AMINO PETIDASES)
L2 0 3 (DI(W)L1) OR DIAMINOPETIDASES
L3 98 3 (CATHEPSIN C)
L4 611 3 (INITIATOR OR (AMINO TERMINAL)) (A)METHIONINE
L5 1529 3 L3(P)L4
L6 1529 3 (INITIATOR OR ((AMINO OR N) (W)TERMIN?)) (2A) (METHIONINE O
L7 14 3 L3 AND L6
L8 3 3 L3(P)L6
SAVE ALL B08945459/L

U.S. Patent & Trademark Office LOGOFF AT 16:31:14 ON 24 NOV 1998

FILE 'USPAT' ENTERED AT 16:36:29 ON 08 DEC 1998

***** WELCOME TO THE *****
***** U.S. PATENT TEXT FILE *****
***** PATENT TEXT FILE *****

-> s 565882/pn

L1 1 565882/PN

-> s l1 and 7dimer

L2 17455 7DIMER

L2 1 1L AND 7DIMER

-> d kwic 1-

US PAT NO: **5,658,882** [IMAGE AVAILABLE] L2: 1 of 1

SUMMARY:

BSUM(14)

The . . . set forth in SEQ ID NO:26. In a preferred embodiment, the purified polypeptide may be in the form of a "dimer" comprised of two subunits, each with the amino acid sequence of SEQ ID NO:2.

DETD(7)

The . . . BMP-12 would start at nucleotide #571 of SEQ ID NO:1. The apparent molecular weight of this species of human BMP-12 "dimer" was determined by SDS-PAGE to be approximately 20-22 kd on a Novex 16% tricine gel. The pI of this molecule . . . [M]TALA. The pI of this molecule is approximately 7.0. The apparent molecular weight of this species of human BMP-12 "dimer" was determined by SDS-PAGE to be approximately 25-27 kd on a Novex 16% tricine gel. The human BMP-12 protein exists. . .

DETD(31)

It . . . heteromolecules comprised of different BMP moieties. For example, a method and composition of the invention may comprise a disulfide linked "dimer" comprising a BMP-12 related protein subunit and a subunit from one of the "BMP" proteins described above. Thus, the present invention includes compositions comprising a purified BMP-12 related polypeptide which is a "heterodimer" wherein one subunit comprises the amino acid sequence from amino acid #1 to amino acid #104 of SEQ ID NO:2, consisting of BMP-1, BMP-2, BMP-3, BMP-4, BMP-5, BMP-6, BMP-7, BMP-8, BMP-9, BMP-10 and BMP-11. A further embodiment may comprise a "heterodimer" of disulfide bonded tendon/ligament-like tissue inducing moieties such as BMP-12, Vt-1 (BMP-13) or HPS2. For example the "heterodimer" may comprise one subunit comprising an amino acid sequence from #1 to #104 of SEQ ID NO:2 and the other. . .

DETD(75)

It is contemplated therefore that the mature active species of BMP-12 comprises a "homodimer" of two polypeptide subunits, each subunit comprising amino acids #1 to #104 of SEQ ID NO:2 with a predicted molecular. . .

DETD(118)

It is contemplated therefore that the mature active species of VL-1 comprises a "homodimer" of two polypeptide subunits, each subunit comprising amino acids #1 to #120 of SEQ ID NO:26 with a predicted molecular. . .

DETD(134)

A glutathione (oxidized) at pH of approximately 8.5). The solution is then dialyzed and stored at 23 degrees C. for 1-4 days. "Dimer" formation is assessed by running an aliquot on a Novex 16% tricine gel at 125 volts for 2.5 hours, followed by Coomassie Blue staining and destaining. BMP-12 "dimer" was purified using a C4 analytical RP-HPLC (reversed phase-high performance liquid chromatography) column (Vydac 214TP54) which was equilibrated to 1% . . .

-> log y

U.S. Patent & Trademark Office LOGOFF AT 16:39:53 ON 08 DEC 1998

-> e cerletti7/in

E1 5 CERLES B/IN
E2 1 CERLETTI N/IN
E3 0 --> CERLETTI7/IN
E4 1 CERLIANT A/IN
E5 1 CERLING T A/IN
E6 1 CERLIANTS A L/IN
E7 3 CERMAC L/IN
E8 1 CERMAK A/IN
E9 1 CERMAK B/IN
E10 3 CERMAK D/IN
E11 4 CERMAK E/IN
E12 5 CERMAK I/IN

-> s e2

L1 6 "CERLETTI N"/IN

-> d bib 1-6

L1 ANSWER 1 OF 6 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD
AN 96-117000 [12] WPIDS
CNC C96-037103
TI Prodn. of dimeric biologically active transforming growth factor - by refolding denatured monomer in detergent-free folding buffer contg. specific organic solvent to improve yield.
DC B04
IN "CERLETTI N" -
PA (CIBA) CIBA GEIGY AG; (NOVUS) NOVARTIS AG
CYC 66
PI W0 9603433 A1 960208 (9612)* EN 54 pp
RM: CH DE DK ES FR GB GR IE IT JP KE LU MC MW NL QA PT SD SE SZ UG
W: AM AU BB BG BR BY CA CN CZ EE FI GE HU IS JP KG KP KR KZ LK LT LV MD MG MN MX NO NZ PL RO RU SG SI SK TJ TM TT UA US VZ VN
AU 9531096 A 960222 (9621)
ZA 950611 A 960424 (9622) 48 pp
FI 9700258 A 970122 (9717)
NO 9700326 A 970124 (9717)
EP 779896 A1 970625 (9710) EN
R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE HU 76667 T 971028 (9815)

